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 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

<220>
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 <223> n equals a,t,g, or c

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 <212> DNA
 <213> Homo sapiens

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<400> 476

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<210> 477

<211> 1102

<212> DNA

<213> Homo sapiens

<400> 477

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<210> 478

<211> 4201

<212> DNA

<213> Homo sapiens

<220>

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<222> (4077)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4161)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4186)

<223> n equals a,t,g, or c

<400> 478

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<210> 479

<211> 787

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<400> 479

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gtctcccatc ctttgcctt tggcaggaga tggcttaaat aaataactta aayttaaaaa 720
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ggggccg                                           787
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<210> 480

<211> 731

<212> DNA

<213> Homo sapiens

<400> 480

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aaaaaaaaaa a                                           731
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<210> 481

<211> 1119

<212> DNA

<213> Homo sapiens

<400> 481

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ataaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1119

```

<210> 482

<211> 2056

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (137)

<223> n equals a,t,g, or c

<400> 482

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ggaggccacg ggcattgnatg cttcgggtcc tgggtggggc tgctctcct gccatgctac 180
tggtcgcccc accaccatc aacaagctgg cactgttccc agataagagt gcctggtgag 240
aagcaagaac atcacccaga tcgtgggcca cagcggctgt gaggccagt ccatccagaa 300
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```

```
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aaamaggggg gggccc                                     2056
```

<210> 483

<211> 887

<212> DNA

<213> Homo sapiens

<400> 483

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attaatttca agaaaaatat cttgagtttt aagaaataaaa catctccaga aaaggagaaa 180
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ggacatttga aactagcaag cagccattgt ttctaaagaa ttctggcttc acattgactc 300
atgtttcttt cactccattt tgaaatagct aaaaatcatt aaaactgtaa atattttgtt 360
gcttgggtaa gcatcttctg ggaactttgt atctatggta tataatcata gaattttata 420
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ccaaaagaat ccaacatgtg ttatttcttt gaggcagtga ttgtgaaagt tgggttttct 600
ttttaattcc attgaccatt tgtgcaatag gaattagaca taattagtca ctgaaaacat 660
tcgtcacatt gaccatttg gaaaaagtgt gctttttttt tttttttaa tttgttcagg 720
gggaggggtt ttgtaacctg aaatttttcc ctttttcttc tgtttaaact atatcaaac 780
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tttttgatgt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaa 887
```

<210> 484

<211> 1878

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1446)

<223> n equals a,t,g, or c

<400> 484

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gaagccgctc accgtcggaa gctgcgggag ctgaaactgc gccatcgtca ctgtcggcgg 180
ccatgacacc gctcgytcc cgcctgaktc gtctgtgggc catcatgagg aagccacgag 240
cagccgtggg aagtggtcac aggaagcagg cagccagcca ggaagggagg cagaagcatg 300
ctaagaacaa cagtcaggcc aagccttctg cctgtgatgg cctggccagg cagccggaag 360
aggtggtatt gcaggcctct gtctcctcat accatctatt cagagacgta gctgaagtca 420
```

```

cagccttccg agggagcctg ctaagctggt acgaccaaga gaaacgggac ctaccatgga 480
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aggatcatgct gcagcagacc caggttgcca ctgtgatcaa ctactatacc ggatggatgc 600
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aaaaaaaaa aaaaaaaaaa

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<210> 485

<211> 1566

<212> DNA

<213> Homo sapiens

<400> 485

```

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tcctttcatg gttataacac attggcagac tttttgctgg ctctgggagc catgatttta 180
atcacattct gcaagggtgac aaatgtcata cattccacat tgtgtggtag ccattctctt 240
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agaaccctct cacaccagag acagttcttc tctgttcagt ttccaatccc cgataatttg 360
ctaaaataac attgtacatc caagagaggg aagaagagta tgtcagtata ttatgcagaa 420
gatagataca gccttttcag aagatctcca ctagtthttg ttccaaaaat tcaagtttat 480
gggagaaaac tcaattagcc accttttcac agttgtgtgg atataacatt tgggggatct 540
ttctggactc ctacctatct gtgcatttta ccggcacctc aggaaaggag ggtgaccagg 600
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acagtctttt tttgaaataa aaagtagctt gagctttctt ttaaaatcat gtatcttgat 780
tgttgattta atgaaggatt tcctthtaat gctgctthtt agcttcaagg taataggaca 840
gcaggaacct aaaatatctg ccatcatctg ccataggaaa gatacccaga gacccatcat 900
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cattctgtaa tcaactgagc tagttccaat aaagttaagc aggtttaaat ccactttgtg 1500
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aaaatt                                           1566

```

<210> 486

<211> 3046

<212> DNA

<213> Homo sapiens

<400> 486

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atggataaca gactgatgga actctttcct gccaaataagc aaagtgttga acacttcaca 780
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ttacacttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 3046

```

<210> 487

<211> 1904

<212> DNA

<213> Homo sapiens

<400> 487

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ggagaccaga ctggttttgg aggtggccca gcatttgggt gagagcacag taaggactat 420
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gtgtaggctg cacaagagcc ttgattgaag atatattctt tctgaacagt atttaagggt 1800
tccaataaaa tgtacacccc tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1860
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 1904

```

<210> 488

<211> 827

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (826)

<223> n equals a,t,g, or c

<400> 488

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaana 827

```

<210> 489

<211> 1926

<212> DNA

<213> Homo sapiens

<400> 489

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cgtgcacttt gtcggatata aaataaacca cgggcccgcg atgsggttas ctttctttt 420
gcagttgcgt ctgggaaggg gccccggact ccctcgagag aatgtgctag agacagcccc 480
tgtcttcttg gcgtggttta tatgtccggg atctggatca gattctgggg gctcagaaac 540
gtcggttgca ttgagctact gggggttaga gttccaacat ttatgtccag agcaacttcc 600

```



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agcaaggctg gtctgggtct ctgcccacca ggcggggagg tggtcaaaga catctccctc 660
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<210> 490

<211> 1461

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1432)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1452)

<223> n equals a,t,g, or c

<400> 490

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<210> 491

<211> 805

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<400> 491

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tcccccttt tggtgtgata gcaaagtgtt ttaatccacg gttgtgcctt attgttccat 720
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<210> 492

<211> 2269

<212> DNA

<213> Homo sapiens

<400> 492

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ccggcgggcg cgcgcacaca ctcaggctga gcagaagagg agggacgcca tcaagagagg 180
ctatgatgac cttcagacca tcgtcccccac ttgccagcag caggacttct ccattggctc 240

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<210> 493

<211> 4108

<212> DNA

<213> Homo sapiens

<400> 493

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<210> 494

<211> 2209

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<400> 494

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<210> 495

<211> 1677

<212> DNA

<213> Homo sapiens

<400> 495

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gggtggtgtt cctagacctt ccctgatgag attttacctt tgttgaaatt gtataaacia 1560
ttgtacaaaa aaaaccactc ttgaactttg agggtttctg ttctaggagt ggactagaag 1620
tttaagccca gagtcagtaa acactgtttt gaagtccaaa aaaaaaaaaa aaaaaaa 1677

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<210> 496

<211> 1702

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1691)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1701)

<223> n equals a,t,g, or c

<400> 496

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cagaggctaa gacccatccc gtatctgctc tcctgaaata attctggagt catgcctgaa 180
atgccagagg acatggagca ggaggaagtt aacatcccta ataggagggt tctggttact 240
ggtgccactg ggcttcttgg cagagctgta cacaaagaat ttcagcagaa taattggcat 300
gcagttggct gtggtttcag aagagcaaga ccaaaatttg aacagggtta tctgttggat 360
tctaattgag ttcattcacat cattcatgat ttccagcccc atgttatagt acattgtgca 420
gcagagagaa gaccagatgt tgtagaaaat cagccagatg ctgcctctca acttaattgtg 480
gatgcttctg ggaatttagc aaaggaagca gctgctgttg gagcatttct catctacatt 540
agctcagatt atgtatttga tggaacaaat ccaccttaca gagaggaaga cataccagct 600
cccctaaatt tgtatggcaa aacaaaatta gatggagaaa aggtgtgcct ggagaacaat 660
ctaggagctg ctgttttgag gattcctatt ctgtatgggg aagttgaaaa gctcgaagaa 720
agtgtgtgta ctgttatgtt tgataaagtg cagttcagca acaagtcagc aaacatggat 780
cactggcagc agaggttccc cacacatgtc aaagatgttg ccactgtgtg ccggcagcta 840
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tgaccttttc atgttgatta ttttaaattg tgtgaaatag tataaaaatc attggtgttc 1560
attatttgc tgcctgagc tcagatcaaa atgtttgaag aaaggaactt tatttttgca 1620
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agttcctttc ntcaaacatt nt 1702
```

<210> 497

<211> 2376

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2354)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2375)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2376)
<223> n equals a,t,g, or c

<400> 497
ggctcnaaca tccttttgct gtgacgagct acgggaagaa tctgtatttc acagactgga 60
agatgaattc cgtgggttgc ctcgatcttg caatttccaa ggagacggat gctttccaac 120
cccacaagca gacccggctg tatggcatca ccacggccct gtctcagtgt ccgcaagcca 180
taactactgc tcagtgaaca atggcggctg caccaccta tgcttgcca cccagggag 240
caggacctgc cgttgccctg acaacacctt gggagttgac tgtatcgaac agaaatgaag 300
acaagagtgc cttatttcct ttccaagtat ttcacagcaa caywytactt gaagcaactt 360
ggtccagatt gaaaagtgtc ctctggctga gtggccacta ggcccagacc cagcccagcc 420
tgagcccaaa caacttttcc ctcactgttc cccaaaacat gcaccctgga cttctcctaat 480
agaaaagtct ccacccttac acaaggacag aaccctccac ccctaccccc aaccctcaga 540
cagacttata cacccttgag tgaggattac atgcccatcc cagtgtccta ggaccttttc 600
ccaatactag cccccagtg gtgaacagaa cctcccaaat ttgagttgca cccttccctg 660
tggccttatg agctcagcct cgctttgagg taccacccgt cctgtcagct ccttgacct 720
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ttttgttttg gtgctctgaa tttcttcttt attatagtcc tatagtttta ctctcagtt 840
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caaacctac cctgtcctag agatctatgg gcatttggtg gatgataatg agcagccct 960
ccagataga atgtcaatat ttgagcagta ggatattggc atttgttagt taaaggctta 1020
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ggattttttt gatgtgcctt aaattatacc aaagattact aattattcct ctttgccaa 1140
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cactgatgtc cctccttttc acggagacct atctgaggta caggatgggg ctggcaccag 1260
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aaccatgacc tcaccctcc ttggtttctc cctcgatctg tggccctttt tggatgtatt 1380
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caatttgttt agaaaacatc tcctgaccat atcagtagct cgtgttatct ttttatcaac 1560
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aagaacagca ataagtaaaa ctcttaagta actccaaaaa gaaaatggta cattttgcca 1800
aagaccactt atacttgaga acatggaaga atttgcctga tactctcttt ggggaaaaga 1860
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tttattcatt ttattagatt tattctaaaa ttttttaatt gttaaattctt aaactgtgga 2220
aaccactgaa ggtgcttatt aactgttctc ccagatttgt acaagtattg gatgattcct 2280
tgagtttaca gctgtacaaa tagtgtgga aataaacttt ttttaaaaaa gaaaaaaaaa 2340

421

aaaaaaaaaa aaanaaaaaa aaaaaaaaaa aaaann

2376

<210> 498

<211> 840

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (840)

<223> n equals a,t,g, or c

<400> 498

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gaagatggcg gtggagtcgc gcgttaccca ggaggaaatt aagaaggagc cagagaaacc 120
gatcgaccgc gagaagacat gccactgtt gctacgggtc ttcaccacca ataacggccg 180
ccaccaccga atggacgagt tctcccgagg aaatgtaccg tccagcgagt tgcagatcta 240
cacttggtat gatgcaacyt tgaaagaact gacaagctta gtaaaagaag tctaccacaga 300
agctagaaag aagggcactc acttcaattt tgcaatcggt tttacagatg ttaaaagacc 360
tggctatcga gttaaggaga ttggcagcac catgtctggc agaaagggga ctgatgattc 420
catgaccctg cagtcgcaga agttccagat aggagattac ttggacatag caattacccc 480
tccaaatcgg gcaccacctc cttcaggggc catgagacca tattaatttc tatttactat 540
ttgttgaatt tatttttccg tcagttatgt aaaataaaca tactcttctt cctcccctga 600
ttattgccat taagccttta aattctaaac aaattataat gcatcatcta tttaggagtt 660
agatttggtat gtgctattgt atgattacga atagtctgta tgtttcaagc ctttctgtaa 720
aatatgaaga aaagtgtctt tagcattctg tgtaaaactg tactgttaaa tatatgtgtg 780
taatcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 840
```

<210> 499

<211> 461

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (452)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (455)

<223> n equals a,t,g, or c

<400> 499

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ggcacagctt ccctcctctt cctttctccg ccatcggtgt gtgttcttga ctccgctgct 60
cgccatgtct tctcacaaga ctttcaggat taagcgattc ctggccaaga aacaaaagca 120
aaatcgctcc attccccagt ggattcggat gaaaactgga aataaaatca ggtacaactc 180
caaaaggaga cattggagaa gaaccaagct ggggtctataa ggaattgcac atgagatggc 240
acacatattt atgctgtctg aaggtcacga tcatgttacc atatcaagct gaaaatgtca 300
ccactatctg gagatttcga cgtgttttcc tctctgaatc tgttatgaac acgttggttg 360
gctggattca gtaataaata tgtaaggcct ttcyttttta aaaaaaaaaa aaaaacyyxr 420
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ggggggggccc gggtcccaat ccccccctatt tnaanccct t

461

<210> 500

<211> 2782

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2620)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2641)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2643)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2712)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2742)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2759)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2779)

<223> n equals a,t,g, or c

<400> 500

ctcaaggttg cccaaactga tgggtgtcaat gtggacatgc acttgaagca gattgagata 60
aagaagttca agtacggtat tgaagagcat ggtaaggtga aaatgcgagg ggggttgctg 120
cgaacctaca tcatcagtat cctcttcaag tctatctttg aggtggcctt cttgctgata 180
cagtgggtaca tctatggatt cagcttgagt gctgtttaca cttgcaaaag agatccctgc 240
ccacatcagg tggactgttt cctctctcgc cccacggaga aaaccatctt catcatcttc 300
atgctgggtg tgctccttggg gtccctggcc ttgaatatca ttgaactctt ctatgttttc 360
ttcaagggcg ttaaggatcg ggttaaggga aagagcgacc cttaccatgc gaccagtggg 420
gcgctgagcc ctgccaaaga ctgtgggtct caaaaatatg cttatttcaa tggctgctcc 480

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tcaccaaccg ctccccctctc gcctatgtct cctcctgggt acaagctggt tactggcgac 540
agaaacaatt cttcttgccg caattacaac aagcaagcaa gtgagcaaaa ctgggctaata 600
tacagtgcag aacaaaatcg aatggggcag gcgggaagca ccatctctaa ctcccatgca 660
cagccttttg atttccccga tgataaccag aattctaaaa aactagctgc tggacatgaa 720
ttacagccac tagccattgt ggaccagcga ccttcaagca gagccagcag tcgtgccagc 780
agcagacctc ggcctgatga cctggagatc tagatacagg cttgaaagca tcaagattcc 840
actcaattgt ggagaagaaa aaagggtgctg tagaaagtgc accagggtgtt aattttgatc 900
cggtgagggt ggtactcaac agccttattc atgagggtta gaaaacacaa agacattaga 960
atacctagggt tcaactggggg tgtatggggg agatgggtgg agagggaggg gataagagag 1020
gtgcatgttg gtattttaaag tagtggattc aaagaactta gattataaat aagagttcca 1080
ttagggtgata catagataag ggctttttct ccccgcaaac acccctaaga atggttctgt 1140
gtatgtgaat gagcgggtgg taattgtggc taaatatttt tgttttacca agaaactgaa 1200
ataattctgg ccaggaataa atacttcctg aacatcttag gtcttttcaa caagaaaaag 1260
acagaggatt gtccttaagt ccctgctaaa acattccatt gttaaaattt gcactttgaa 1320
ggtaagcttt ctaggcctga ccctccaggt gtcaatggac ttgtgctact atatTTTTTT 1380
attcttggtg tcagttttaa attcagacaa ggcccacaga ataagatttt ccatgcattt 1440
gcaaatacgt atattctttt tccatccact tgcacaatat cattaccatc actttttcat 1500
cattcctcag ctactactca cattcattta atggtttctg taaacatttt taagacagtt 1560
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tctgtctgtg gcaagtaaaag cacacttttt ttttctccta aaatgttttt cctgtgtgat 1860
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gaggttgaaa gaggattcag tagtacacat acaactaatt tatttgaact atatgttgaa 2280
gacatctacc agtttctcca aatgcctttt ttaaaactca tcacagaaga ttggtgaaaa 2340
tgctgagtat gacacttttc ttcttgcatg catgtcagct acataaacag ttttgtacaa 2400
tgaaaattac taatttgttt gacattccat gttaaactac ggtcatgttc agcttcattg 2460
catgtaatgt agacctagtc catcagatca tgtgttctgg agagtgttct ttattcaata 2520
aagttttaat ttagtataaa catagcttct atattccgtc tcaaaaaaaaa aaaaaaaaaa 2580
acgtgcttag ttcagttcaa gttgtctcct tataatttgn ttttggtatga aaaaagattg 2640
ngncatttgt ttaaagtcag aggattatct aaaagccagt ttcccagtc aattggatat 2700
aattggtagt gngaatactt cttcaaggac tattacttgg gnggttggag aatttattnt 2760
ggaagaaggc aaatgcttng gg 2782
```

<210> 501

<211> 1249

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<400> 501

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caaaattgtt aagaaatgtt agtgggtggg ctgatctgac tgcagccatc ggtaaataaa 120
agtttttgat cctgttgaac ccgcctgaga cgggtgctgtg aggggaaagc cttccgcacc 180
cacacaggaa ttctgctgag gtcccccttc cttccggcca atggcagaag tgggggaaaa 240
tttttagaag aaaagcaaac atgtgagacc aatcattatc aaatactttt attttttggg 300
tgagtattta tctttttatt ttttattttt ttttttgaag gaatgtcttg gaatgcgcaa 360
gtctcccttt agagccgtct tttgcaggga gcgggaagtg acaagagctc agatctccct 420
cccgatctcc ctccccacct ccgaagtctc ctccgtggac cacagggtga tctttgtgcg 480
aacaacttgc atttcggaag ccaactgtccg tctttaaaca gaaagtcgaa ggagccacga 540
agcaagcggc cgtccggggc tccgyctgcc gtccccttcc atgttcctcc tcttccttcg 600
cttcagcctc ttctgttatg ttttgtcttg aattttattt agactttttc agtgggtatt 660
tttctgtctt ccaacctcta ctgtaaactt tctggtccga gaacgagccg aacacagcgc 720
gacgcaggga ctaggacggc ccggtgaccg cgcgattca ggattgcggg gacgcagaaa 780
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tggcaatatt tgcctgttag aatttttttt agatatccat tgtaaatttg aaacaaagac 960
cgatctgtgt aaaaacaaat ttccatatgt tttatataaa tatatatata atatgaagga 1020
ctaccctcct tttttttttt gtattttggc tgctagagtg cagcatttgt gacacgtatt 1080
tgaaatttga aatttccttc tgcactgtat aaaaggacca tttgaggatg ttttgccttt 1140
tgtgtatttt ttcttaaaaa aagaacaaaa ataaaaatgt ataacatttg tacatggcct 1200
ttaaaattgt atcaactaga aataaaattg catgagtatt ttaaaaaaa 1249
```

<210> 502

<211> 1358

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1334)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1347)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1349)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1351)

<223> n equals a,t,g, or c

<400> 502

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ccgcaccct agccaggccc caggagcct ccgctgggcc cagacagcag cgtygggtt 60
tatccacttt tctyggataa tcaggaggtg cccagtsgt cacagtgtgg cattccgagt 120
tggggcgggt ggtcgggtca agatagcagc agcaggtgtc agggctcaag acaccacccc 180
```

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ctccagcttc tggggccag gagcctctcc ctgctacagg ggggtgggggt cctgctcagc 240
agggtagggtg gtgggttttag gtcttgctcac cctcactcag tgggaactgcc tctgggagct 300
ttggcgctctg tractaaagg gacgctggat tgctcagggtc agctgctcgg ggctcccagg 360
ctgggtgtgct cttagccaca ggcagggctg tcaataacccc ccttcctcac tggccaccac 420
ctgacatcag caccagtgc aggctgggtca gagggcgggg ctggtgaggg tttgtcctaa 480
gaggaccacc gccatctctg ggtctccagg gggagagcct ggccctgtcc tttgttacct 540
agggtgccc ccaggcccat gaagccaata ggagagcgtg tggcactggc ccacaaactg 600
tccctgtcct gtcttctctc cgagccatgg cctctgctag ctccaccttg aaggagcccc 660
ccacatcctc ccctacatcc cagagatgcc accacttgtg tctccacaat gtgctcctgc 720
ccaccgggt tccgactgt ccgacccctg cacaccactc atgtcaccac ggcgtgcac 780
atgttcatcc ccctctatct atttaagcct ttctttgctt gtagggcatt ttgtatgtag 840
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gaccaccctg ttatctatgt atatgtaaag ttaaggatga gatcttaagt ttacaattaa 960
aaactcagta ctcaatattt aatattctac tcgagcttta tgggaagcaa atcatgtgca 1020
tgtgtgtgtg tgcgtgtgtg caagctttga acctccttcc acagccgcat cttctcatga 1080
cacaaagctt ttgataagta ctttctctgtg ggtcgtcag ggcctcatag catctcattc 1140
aattacaaga atagaggcca gacacggttg cgcagtgcctg gtagtcccag ctaaactggg 1200
gaggctggag ggcagggagg gatcactttg gagcccaggg agattggagg gctggcagt 1260
gagccatgga tccggcgac actggcactt ccagcctggg ggtggacggg tggagacttt 1320
tgttctccaa aaanaaaaaa aaaaaancnt nggagggc 1358

```

<210> 503

<211> 501

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (457)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (492)

<223> n equals a,t,g, or c

<400> 503

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gccacgcgt ccgacggctg cgagaagacg acagaagggg ctttctttct ttccgcgccg 60
atagcgctca cgcaagcatg gttaacgtcc ctaaaacccg ccggactttc tgtaagaagt 120
gtggcaagca ccaaccccat aaagtgcac agtacaagaa gggcaaggat tctctgtacg 180
cccaggga aa ggcggcttat gacaggaagc agagtggcta tgggtggcaa actaagccga 240
ttttccggaa aaaggctaaa actacaaaga agattgtgct aaggcttgag tgcgttgagc 300
ccaactgcag atctaagaga atgctggcta ttaaaagatg caagcatttt gaactgggag 360
gagataagaa gagaaagggc caagtgatcc agttctaagt gtcatctttt attatgaaga 420
caataaaatc ttgagtttat gttcaaaaaa aaaaaanggg gggggcccgg taccawtcg 480
cctatagggg gncgttttaa a 501

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<210> 504

<211> 2011

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (1941)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1961)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1974)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1976)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2002)
<223> n equals a,t,g, or c

<400> 504
gatctgcctt cccagttaga ctgagagaac aggggatata cctaaataat aataataata 60
ataataataa taataataat aaataataat ggagagctcc ttgaagatag ggagcctgta 120
agaatcattg agggcttatt ttgtatacca actgctaaac tagatgcttc atacattggt 180
gtcaatactc atgacagcct tgtaaagtag aaawtaattc ttccagttaa cackaaggct 240
gacatatgaa taccttggca aatctggaaa gctgggaaga cagtaattga actcaagact 300
tcttgtcacc aagggcattg acttgtactc tgccatgtgg scctttttta cctcctgtgg 360
attctcccta cctggtactt ggccttaggt gtacacacac ctggcacttt gcttgacaca 420
taatagggtg accacaaata tctactaaat gaatatttgc atatagtaat attttaagggt 480
actaaaagca gctcaaagta aatattaata tattaattcc attgctatct ggataaccac 540
tcaactttcc tgctgaaaat gccattttaa ttaaagaagg ttggatagag ctctctatat 600
gcatttttga caggcagggg tttcagggtca taaacattct gatgagttaa tataaaataa 660
gagaaactgt aaatttccac tactaaaaat cacaaaaata acagaaacaa aagaagagat 720
aagaatttgg ggaattgtgc tgaacaattt agtggttaaa aaaaacaact gtgcatgttt 780
agacttaaat aagcccccac ccaagtgtga ggggtccagt aatttttcaa aacatatgaa 840
agtgttaata catttygaca aaggaccatt aaaaaagtcc tgaattctga cttgagggag 900
gaaagtaatg actaatacat tctctagaga cttgcagact ttgggaattc ataaaggaat 960
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aagtctctgg gtttgggatg gatcaattct gagactggaa aatggccaaa tctttgcaaa 1080
tgagaaatat ttttcttata agttcttatt gtaggcaaat aattacatag attattcatc 1140
agagaatttt taaatgctca taatctcaac tctttcattt acaacttgta tttccaatag 1200
tttatgggtc atctctgcat agatgtcaga agtcacctca agtttagygt gtccaaaatc 1260
taactcacag gtctgtttct gacctcccaa cttgctttcc ttgtgttttt cctatgctaa 1320
tgatccacca taatcaaaat aattaacatt tatccagtgc ctactatgta ctattccctg 1380
tctgttttta catttactca tttaaagtcc ataagaaaca ttaaattctca tctgccttct 1440

```

gaagaagata caaccatgct ctctttttaca aagtaggaaa ctgggtcaca gaaaggtgaa 1500
gtcttttaagg ctgaatcaca gtagctcatt ctagtaaata gaaaagccag gattcaactc 1560
caggggctgg gtgcagaact gctattcttc actgcttcac caatcagcag ctaccaagg 1620
cagaaaactt tttcatcctt ggctccttca ttctccctgt caccacagat cccctctaca 1680
tctagtcaga gaataggtcc tgtcaattcc aacttctcta tatggctcct ctcaggcatg 1740
tgcccttaat tggcctaatt ctctaataca ccttccctct acatgctcac tccctcagat 1800
cattgcttta tcacgkrtta cctgggttgc tattacataa agagcaatct ttctaaaatg 1860
agggatctta tcacttcaact tccacactaa aatgtttttc ctgggggaac cacacttctc 1920
tagcaatctg acccatcaga nctttccagg ctgtctcctg nctgggtccc taangntccc 1980
agccaacacc ggaattatca tngggcccaa a                                     2011

```

<210> 505

<211> 1989

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1917)

<223> n equals a,t,g, or c

<400> 505

```

ggtgaggggt cgcccggtgca cagcctgtcc cagccgtcct gtcctggctg ctgctctctgc 60
ttcgtctgcgc cgccactatg ctctccctcc gtgtcccgct cgcgcccatc acggacccgc 120
agcagctgca gctctcgccg ctgaaggggc tcagcttggg cgacaaggag aacacgccgc 180
cggccctgag cgggacccgc gtcctggcca gcaagaccgc gaggaggatc ttccaggagc 240
ccacggagcc gaaaactaaa gcagctgccc ccggcggtgga ggatgagccg ctgctgagag 300
aaaacccccg ccgctttgtc atcttcccca tcgagtacca tgatatctgg cagatgtata 360
agaaggcaga ggcttctttt tggaccgccc aggaggtgga cctctccaag gacattcagc 420
actgggaatc cctgaaaccc gaggagagat attttatatc coattgtctg gctttctttg 480
cagcaagcga tggcatagta aatgaaaact ttgtggagcg atttagccaa gaagttcaga 540
ttacagaagc ccgctgtttc tatggcttcc aaattgccat ggaaaacata cattctgaaa 600
tgtatagtct tcttattgac acttacataa aagatcccaa agaaagggaa tttctcttca 660
atgccattga aacgatgcct tgtgtcaaga agaaggcaga ctgggccttg cgctggattg 720
gggacaaaga ggctacctat ggtgaacgtg ttgtagcctt tgctgcagtg gaaggcattt 780
tcttttccgg ttcttttgcg tcgatattct ggctcaagaa acgaggactg atgcctggcc 840
tcacattttc taatgaactt attagcagag atgagggttt acactgtgat tttgcttgcc 900
tgatgttcaa acacctggtc cacaacccat cggaggagag agtaagagaa ataattatca 960
atgctgttcg gatagaacag gagttcctca ctgaggcctt gcctgtgaag ctcatggga 1020
tgaattgcac tctaataaag caatacattg agtttgtggc agacagactt atgctggaac 1080
tgggttttag caagggtttc agagtagaga acccatttga ctttatggag aatatttcac 1140
tggaaggaaa gactaacttc tttgagaaga gagtaggcga gtatcagagg atgggagtga 1200
tgtcaagtc aacagagaat tcttttacct tggatgctga cttctaaatg aactgaagat 1260
gtgcccttac ttggctgatt ttttttttcc atctcataag aaaaatcagc tgaagtgtta 1320
ccaactagcc acaccatgaa ttgtccgtaa tgttcattaa cagcatcttt aaaactgtgt 1380
agctacctca caaccagtcc tgtctgttta tagtgctggg agtatcacct tttgccagaa 1440
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gggtgaccct ttagtgagct tagcacagcg ggattaaaca gtcctttaac cagcacagcc 1560
agttaaaaga tgcagcctca ctgcttcaac gcagatttta atgtttactt aaatataaac 1620
ctggcacttt acaaacaaat aaacattgtt tgtactcaca aggcgataat agcttgattt 1680
atgtggtttc tacaccaaat acattctcct gaccactaat gggagccaat tcacaattca 1740

```

```
ctaagtgact aaagtaagtt aaacttgtgt agactaagca tgtaattttt aagtttttatt 1800
ttaatgaatt aaaatatttg ttaaccaact ttaaagtcag tcctgtgtat acctagatat 1860
tagtcagttg gtgccagata gaagacaggt tgtgttttta tcctgtggct tgtgtantgt 1920
cctgggattc tctgcccccy ctgagtarag tgttgtgggr taaaggaatc tytcaggggc 1980
agggggctt 1989
```

<210> 506

<211> 1085

<212> DNA

<213> Homo sapiens

<400> 506

```
gggcgtggcg gcgctgtgcg cgtgcacaaa agagagctga ggggcggggg cgctgcggca 60
cagctggttt gagcaactga actggaaaca agatgcagga cccaacgca gacactgaat 120
ggaatgacat cttacgcaaa aagggtatct tccccccaa ggaaagtctg aaagaattgg 180
aagaggaggc agaagaggag cagcgcatcc tccagcagtc agtggtgaaa acatatgaag 240
atatgacttt ggaagagctg gaggatcatg aagacgagtt taatgaggag gatgaacgtg 300
ctattgaaat gtacagacgg cggagactgg ctgagtggaa agcaactaaa ctgaagaata 360
aattyggaga agttttggag atctcaggga aggattatgt tcaagaagtt accaaagctg 420
gcgagggcct gtgggtcatc ttgcacctt acaaacaagg aattcccctc tgtgccctga 480
taaatacgca cctcagtggg cttgccagga agtttcctga tgtcaaattt atcaaagcca 540
tttcaacaac ctgcataccc aattatcctg ataggaatct gcccacgata tttgtttacc 600
tggaaggaga tatcaaggct cagtttattg gtcctctggt gtttggcggc atgaacctga 660
caagagatga gttggaatgg aaactgtctg aatctggagc aattatgaca gacctggagg 720
aaaaccctaa gaagccgatt gaagacgtgt tgctgtcctc agtgcggcgc tctgtcctca 780
tgaagaggga cagcgattcc gagggtgact gaggtacag cttctatcac atgccgaact 840
ttcttgtgac aaattgtctg gattttttaa aaaaggaaaa agcaagaatg aatccttgtg 900
gtttttagtt ttgtataaat tatgtttcaa atctttacat tttggaaata atcattgctg 960
gagattctgt taaatatttt ggaactcttt tttttttaaa ttatagtatt tcctctaaaa 1020
aaaattaaaa ccagccattt gtatggcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aaaaa 1085
```

<210> 507

<211> 1485

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (570)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1476)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1485)

<223> n equals a,t,g, or c

<400> 507

```
cgccgcccgt gcctttcttc ttctctctyc tcctccttgg catccgcctc ttcttctctcc 60
tgcgtcctcc cccgctgcct ccgctgctcc cgacgcggag cccggagccc gcgcagagcc 120
cctggcctcg cggtgccatg ctgccccggc ggcggcgtg aaggatggcg acgcccgtgc 180
ctccgccctc cccgcggcac ctgcggtgc tgcggctgct gctctccggc ctgctcctcg 240
gcgcgcctct gcgtggagcc gccgccggcc acccgatgt agccgcctgt cccgggagcc 300
tggactgtgc cctgaagagg cgggcaaggt gtcctcctgg tgcacatgcc tgtgggccct 360
gccttcagcc cttccaggag gaccagcaag ggctctgtgt gccaggatg cgcggccctc 420
caggcggggg cgggccccag cccagactgg aagatgagat tgacttctcg gccaggagc 480
ttgcccggaa ggagtctgga cactcaactc cgccctacc caaggaccga cagcggctcc 540
cggagcctgc caccctgggc ttctcggcan gggggcaggg gctggakctg ggcctccctc 600
ccactccagg aacccccacg cccacgcccc acacctccct gggctccccct gtgtcatccg 660
acccggtgca catgtcgcct ctggagcccc ggggagggca aggcgacggc ctgcgccctg 720
tgctgatcct ggcttctgt gtggccgggtg cagccgcctc ctccgtagcc tccctctgct 780
ggtgcaggct gcagcgtgag atccgcctga ctcagaaggc cgactacgcc actgcaagg 840
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cggagatgta ccactaccag caccaacggc aacagatgct gtgcctggag cggcataaa 960
agccacccaa ggagctggac acggcctcct cggatgagga gaatgaggac ggagacttca 1020
cgggtgtacga gtgcccgggc ctggccccga ccggggaaat ggaggtgctc aaccctctgt 1080
tcgaccacgc cgcactgtcc gcgcccctgc cggccccag ctcaccgcct gcactgccat 1140
gacctggagg cagacagacg cccacctgct ccccgacctc gaggcccccg gggaggggca 1200
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cctggtcccc tgcacctctc ctgttyggtt tagaccccc aactggaggg ggcattggaga 1380
accgtagagc gcaggaacgg gtgggtaatt ctagagacaa aagccaatta aagtcattt 1440
cagacctgcy gaaaaaaaaa aaaaaaaaaa aaacnngggg ggggn 1485
```

<210> 508

<211> 1930

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<400> 508

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attttagtaa acttttagac aaaatttgtn aaaatgctga catcatttat aatccttcat 60
ttatttgtaa aaagatgagg acacacatta artgawgtca gcatttttag aaacttttag 120
acaaaatttg ttagggctcat tcatgaaaac tttaatacta aaagcacttt ccattatata 180
ctttttaaa gcttagataa ttttgaacca atttattatt gtgtactgag gagaaataat 240
gtatagtaga ggacagcctt ggtttgtaaa gctcagttcc actagttcat ggttttgtgc 300
aacttctgag cctcagtttt ctcctttgca aattaataat tacatacctt tatagatttt 360
gaaattaatt taaatattag tatttggtac atgaaggctt aatgttaagt ttcctttaat 420
```

```

gatccacaat aatccctttg atcacgttaa tctaaatcta gatgtctttg tctaattttt 480
tttgaatagc agttataaat gtaaaggact caaagtttaa gtaaaaagtg atactccacc 540
ttgtgtttca aagaatttag ttccacctct tcataccagt ttaacactta atatatattca 600
ttggatttta gacagggcaa aaggaagaac aggggcctct ggaggccctt ggttatttta 660
atcttggatt atttgtgata gtaatcacia atttttggct aatttttaac ctgagggttt 720
gttttttttt taaaggaaat gcagcctagt cttgagaaca taattttata taatcaatta 780
ctaaatgtta aactattacc acacagccca taaaacagca tttgcgttta ttgagagaga 840
ggatgtgcca tcatgattaa tgaaaactat cttttgagtt tgaaaagaaa ttaatttgca 900
gtgtttggat tgtatatatg gtgctaaaaa taaattaatt tactttataa acctatctg 960
tacattatac gatgtgatga aatttgcttt ttatccaaat attttgtatc ttgtaaatat 1020
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agagttatga gttgaagtct tgaatgcagg aaactatctg atagtgttct aaaatttggt 1140
tacttgggtt tggataccct tagtgggatg atgtaaatag aggctagcta cctaggcttg 1200
tctatagcaa ccataatggt gatgtaagta atgctgttac tgaatcataa gaaaatgcca 1260
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gccttaacac agctctatac ctagaagcag ccagcccagg catgcagtca catttaatca 1440
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atctcttgaa atttattttt ttaatgtcat attcatctgg taaatatcta ctgtttgcca 1560
ggcatttaag aatatggcaa agaacataaa agatggtgtc accagatttt ggtcaccaat 1620
gagtaccga cccgttgcca tgattaagag agaatgcttt ctattggagt ttcaggaaat 1680
ataatttgag aatactttaa agggaagtgg aagtataagt gaatgatatt tttcttttac 1740
atgtaaacia tgaagttatt tcaaagttaa gttttaaaca aaatacatga agtagtgtct 1800
gccatacatg ttaatatctt acattcttgc ttccctaaat taatatgttt gtgtgtatat 1860
atgtgcctca cacctgaatt gaaaattaaa gactggttta aaagtgaaaa aaaaaaaaaa 1920
aaaaaaaaat                                     1930

```

<210> 509

<211> 1134

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (895)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1041)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1064)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1090)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1106)

<223> n equals a,t,g, or c

<400> 509

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gagccacgcc cgggctgtgg gaataagatg gcggggaaga agaattgttct gtcgtctctc 60
gcagtttacg cggaagattc agagcccagag tctgatggcg aggctggaat cgaggcgggtg 120
ggcagcgcgg ctgaggagaa aggcggattg gtatctgatg cctatgggga ggatgacttt 180
tctcgtctag ggggtgatga agatggttat gaagaagaag aagatgagaa cagtagacag 240
tcggaagatg acgattcaga gactgaaaaa cctgaggctg atgacccaaa ggataataca 300
gaagcagaaa agcgagaccc ccaggaactc gtggcctcct tttctgaaag agttcggaac 360
atgtcgcctg atgaaatcaa gatcccgcca gaacccctg gcagatgttc aaatcacttg 420
caagacaaga tccagaagct ttatgaacga aagataaagg agggaaatgga tatgaactac 480
attatccaaa ggaagaaaga atttcggaac cctagcatct acgagaagct gatccagtgc 540
tgtgccattg acgagcttgg caccaactac ccaaaggata tgtttgatcc ccatggctgg 600
tctgaggact cctactatga ggcattagcc aaggccaga aaattgagat ggacaaattg 660
gaaaaggcca aaaaggagcg aacaaaaatt gagtttgtga cgggcaccaa aaaaggcacc 720
acgaccaacg ccacgtccac caccactacc actgccagca cagctgttgc agatgctcag 780
aagagaaaga gcaagtggga ttcggctatc ccagtgcaca cgattagccc agcccacat 840
cctcaccacc acagccaccc tgccagctgt tgtcacggtc accaccagcg ccagncktc 900
aaggaccacc gtcactctctg ctgtggggca ccattgtgaa gaaggccaag cagtgcctg 960
aggggccacc ttagggaytt gaaaaggagc cgttgacgcc ccarttgacc actggccagt 1020
gggagggcgg ccatttttgt nttatttttc agggatttgg ggancctatt tccccaggtt 1080
gcccaacttn agggaggagt ttttntttt tgggcttttc caggttgga aggg 1134
```

<210> 510

<211> 1382

<212> DNA

<213> Homo sapiens

<400> 510

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ggcgaatggg gaaggatttg aagtcacctt tgggtgtttg gagtgatcag agctgtctgc 60
cctcttgggg agtgacagtg cccactctg ttaagtccca tgcctgcccc caactcagct 120
tcagccaaa tgatgtagcc tcttttctt tccatccaca gggcacctgg cctgggtgga 180
gccactcct cagcaccac ctcacttct gcagtattct gcagaccca gccctgtgcc 240
tgtgtcctg gacagctgga gataaggagt gggccctgga agatgctcat tcaggccctg 300
ctcaagattc cagtctgat tgctggactc gctgaagara gactacgcag gaaagcccca 360
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actcattgtc tatgcacacc aggaacccaa gtctttcaac ggatccttga agaattgtgc 480
tgtagatgaa ctgagcaggc agggctgcac cgtcacagtg tctgatttgt atgccatgaa 540
ctttgagccg agggccacag acaaagatat cactgggtact ctttctaata ctgaggtttt 600
caattatgga gtggaaccc acgaagccta caagcaaagg tctctggcta gcgacatcac 660
tgatgagcag aaaaagggtc gggaggctga cctagtgata tttcagttcc cgctgtactg 720
gttcagcgtg ccggccatcc tgaagggtg gatggatagg gtgctgtgcc agggctttgc 780
ctttgacatc ccaggattct acgattccgg tttgctccag ggtaaactag cgctccttc 840
cgtaaccacg ggaggcacgg ccgagatgta cacgaagaca ggagtcaatg gagattctcg 900
atacttcctg tggccactcc agcatggcac attacacttc tgtggattta aagtccttgc 960
ccctcagatc agctttgtc ctgaaattgc atccgaagaa gaaagaaagg ggatggtggc 1020
tgcgtggtcc cagaggctgc agaccatctg gaaggaagag cccatcccct gcacagccca 1080
```

```

ctggcacttc gggcaataac tctgtggcac gtgggcatca cgtaagcagc aactaggag 1140
gccagggcgc aggcaaagag aagatgggtgc tgtcatgaaa taaaattaca acatagctac 1200
ctggggatac ttttttcttt ctgttttttg tttgttttta attttagctt taaggagcac 1260
atggccagta ctgtttcagg ggaatattgg gtggcgctgg ggtttgggct tctattgatc 1320
ccatcaccca aacagtgagc atagtccca atagatagtt tttcaacact tcctttcctc 1380
cc

```

```

<210> 511
<211> 1741
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (1696)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1710)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1715)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1717)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1720)
<223> n equals a,t,g, or c

```

```

<400> 511
aactatccaa gccacctatt ttatttggtc tttcatctgt gactgcttgc tgactttatc 60
ataattttct tcaaacaaaa aaatgtatag aaaaatcatg tctgtgastt catttttaaa 120
tgtacttgct cagctcaact gcatttcagt tgtattatag tccagttctt atcaacatta 180
aaacctatag caatcatttc aaatctattc tgcaaattgt ataagaataa agttagaatt 240
aacaatttta ttttgtacaa cagtgggaatt ttctgtcatg gataatgtgc ttgagtcctt 300
ataatctata gacatgtgat agcaaaagaa acaaacaaaa gccaggaaaa cactcatttt 360
cgccttgaat atgtaaatgg gattaatttt gtcctgtgcc ttatgtggaa aggaacttct 420
ttggttttcc ttttttggtc tgggtggaagc atgtgcagga gacatatcat ccaaacataa 480
accattaaaa tgtttggttg ttgcttggtt gtaattttca aagtagttaa ttgaggacaa 540
agggtaatgc agaagtgata gctttgggtt gctgagtcctt gttttaagtg gccttgatat 600
ttaaaactat tcctgccacc atttcttctc cttggccact tcttccttgc gtctccctgc 660
atgctgcttt atttgcttct ccctcccaa ccacctcatg gtatatttaa gagtgaagg 720
gacaaactag taggtttgtc aagtttaata taaagcactg atgtaacttg ctaggtaaac 780

```

```

ggaaagataa gttctaactg cctactatcc matgtccagt taattggtgt cttccccccct 840
catttgctct cttccctaaa atgtgtccca gatgccttca tttgctgttt tacttctatg 900
ttctgctttt cctcctctct tkgttccctt cckgtctatc cattgagttt atgaaatgga 960
agagttaact gcatgcacta gtgtttgrag ggtgttgtgg tttgtctttc taattaggtg 1020
tatagcctat tcacttccta gaataaatct cttamcctaa atttgagtag tctgcatttt 1080
ggcaactcct ctagcagctt ggtagcctag tacagggtgt ttttttaaaa aaggaaaagc 1140
aggaaggagg agtgaatttt attaacatgt ttgccaaatg tattgagatt tggcctctga 1200
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<210> 512

<211> 1530

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1342)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1444)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1488)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1508)

<223> n equals a,t,g, or c

<400> 512

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```

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<210> 513

<211> 2999

<212> DNA

<213> Homo sapiens

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<222> (243)

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<220>

<221> misc feature

<222> (2606)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2996)

<223> n equals a,t,g, or c

<400> 513

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<210> 514

<211> 2048

<212> DNA

<213> Homo sapiens

<400> 514

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ggactttata tgttcaagt caggaattgg aaagttggac ttgttttcta tgatccaaaa 180
cagccctata agaaggttgg aaaaggagga actatatagc agcctttgct attttctgct 240

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2048

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<210> 515

<211> 3300

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (126)

<223> n equals a,t,g, or c

<400> 515

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<210> 516

<211> 3425

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (402)

<223> n equals a,t,g, or c

<400> 516

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ggggc

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<210> 517

<211> 1358

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1346)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1356)

<223> n equals a,t,g, or c

<400> 517

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tttacagcca atacaggttt aatcgatgtt caatatgtgt ttaggaaatt taaggccttc 180
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gaaacctact cattaaattg ttaactttt taatgactat gtgaagatat gaattgtttc 300
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gaatctgctg cttgttggtt cagtgtttct tatgaacaag agccacagta cagagcttca 480
agttatttaa aatactaagt catcttacgt ttccatttta ttaacgggat gttgcaatcg 540

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aacaatggct tttacattga aagattaata gaaactctac atatgttaat ttttttatag 720
aacctgactc aaatcaaggc actctccatt ttattgcctt acctgaatca gtcctttttg 780
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taaaaaaaaa aaaaaaaaaa aaagnagga aagaanag 1358

<210> 518

<211> 1368

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1225)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1333)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1335)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1347)

<223> n equals a,t,g, or c

<400> 518

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tctggaagat caagaagctc attaagagct tggaggcggc ccgcggcaat ggcaccagca 240
tgatatcatt gatcattcct cccaaagacc agatttcacg agtggcaaaa atgttagcgg 300

441

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atgagtttgg aactgcatct aacattaagt cacgagtaaa cgcctttca gtcctgggag 360
ccattacatc tgtacaacaa agactcaaac ttataacaa agtacctcca aatgggtctgg 420
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caattaattc ccnanaaagg ggtcaanttt ggaaaagaat tgggggaa 1368

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<210> 519

<211> 933

<212> DNA

<213> Homo sapiens

<400> 519

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ctctactgga aaagaaacag taaatgccac cttcccggtg gctatagtaa tgctgcgggc 120
cattagagat ttcttctgga aaactggaaa caagataggg tttaaaccag caggaggcat 180
ccgcagtgca aaggattccc ttgcttggct ctctcttgta aaggaggagc ttggagatga 240
gtggctgaag ccagaactct ttcgaatagg tgccagtact ctgctctcgg acattgagag 300
gcagatttac catcatgtga ctggaagata tgcagcttat catgatcttc caatgtctta 360
aatcagtcac cagttccaga aaagtctctt acgacaatgt ttaaaaatta ttttctacg 420
taattgtcta aattatttaa ttaaaaaatt gggcagtagg taactggcat tcctctcttt 480
aaaatttcta ccgaacttaa tggaatggaa aaagcaaact catccacatg tggactcat 540
ttcaggcaca tctgaaatga tcttaattac tagaagatct gcactattaa ctttgtgaag 600
agtttctcct aaaaaacttta agtaaaatgt taatggtagc tttgataaca tcaaaattcta 660
agggagaaaa aaacaatatt aaaccgcca agcagtgtgc ctagcagag gaaaatgcaa 720
catctcgcaa gcgctgctgt aacgacttca ggagtcactg attcagcact aatttcctgc 780
tgtgaaaact catctttcat ttttgccgtg gataggcgct tttattaatt gttgcctaa 840
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<210> 520

<211> 1430

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (104)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (105)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1428)
<223> n equals a,t,g, or c

<400> 520
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tcacgcagga tagtaattat ttgttaaccg ggggacagga taaactgtta cgcatatatg 180
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ataagtatga ttataatagt ggagaagaat tagaatccta caagggacac ttgggtccta 600
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaanaa 1430

<210> 521
<211> 1169
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1159)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1166)
<223> n equals a,t,g, or c

<400> 521

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gagggggctt tgggtgaccgt ggtggtcgtg gaggccgagg gggctttggc gggggccgag 180
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cacccccaca ggtgaagaac tgaagttcag cgctgtcagg attgcgagag atgtgtgttg 1080
atactgttgc acgtgtgttt ttctattaaa agactcatcc gtcaaaaaaa aaaaaaaaaa 1140
argggggggc gctaggggnt ccaagntta 1169
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<210> 522

<211> 2162

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (169)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2133)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2136)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2139)

<223> n equals a,t,g, or c

<400> 522

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gccgggcgcg gagaagtcgg ggcgggcggc agagaggccg ggacgcggac cgggccgggg 60
cgcccacagc cgcccagcgg cgcccagaga gcgcgcgccc cgcagccccg cgccatagccc 120
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444

```

gccgggcatg gggcgcgcg gaggccgctga agccccggcc tggccccggnc gcacccggcc 180
ggaggcgagg ggcagagcgc gcgcccagtt gcccgggcac caaatcgagg cgcggcggtgc 240
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ccatcacatg ctcaaacatc tccacaatgg tgcaaggatc acagtgcaga tgccacctac 480
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2162

<210> 523

<211> 799

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (443)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (758)

<223> n equals a,t,g, or c

<400> 523

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cgtttttctg taaccagcag accttatcta tactcccaat tccaattcct tgtaaacata 120
ctttgtaaag tcctgtaaga tcctgtctcc tttgccatga cgctgcaagg tcataaagta 180
gataaaacct aagttgcaat tccggttttc ctcaagatct aagacatgtt acaaattggt 240
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gagtttaaaa ggcaatccta taatctaact ctggctaccc attctggacc ccctccatgc 360
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tccatgtctc tttcactcac tgnngtcagc ttccacacca tttctttggt gtggcttggc 480
aagaacctca ggtgttacat cttggcgagc cagacaggag actccagaaa aggatcaaaag 540
ccatcaagct acaaatratc ttacaaatgg aacctcaaat gagctcagct cacggcttct 600
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actgccacam ggttcccaac agcarttkgg ggtgtccngt tttagaggca ggatttagag 780
gaggtgcccc attgggttt 799
```

<210> 524

<211> 1722

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<400> 524

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yacagatggg accatgaact ccggacacag cttcagccag accccctcgg cctccttcca 180
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gcagaatctc aacgaccgcc tggcctccta cctggagaag gttcgcgccc tggaggaggc 420
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gaaagattat tcccagtatg aggaaaacat cacacacctg caggagcaga tagtggatgg 540
taagatgacc aatgctcaga ttattcttct cattgacaat gccaggatgg cagtggatga 600
yttcaacctc aagtwtgaaa atgaacactc ctttaaaaaa gacttggaaa ttgaagtcsa 660
gggcctccga aggaccttag acaacctgac cattgtcaca acagacctag aacaggaggt 720
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gcatcatgtg ccaagtgact tcaatgtcaa tgtgaaggtg gatacaggtc ccagggaaga 840
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tctgattaag gtcctggagg atatgagaca agaatatgag cttataataa agaagaagca 900
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<210> 525

<211> 562

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (515)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (526)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (557)

<223> n equals a,t,g, or c

<400> 525

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tcccggggccc gagggcatca gacggcggct gattagctcc ggtttgcac acccggaccg 60
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ggaccggggg ccgggcgcgc acgagactcg cagcggaagt ggaggcggct ccgcgcgcgt 180
ccgctgctag gacccgggca gggctggagc tgggctggga tcccgagctc ggcagcagcg 240
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cacgcggaac gacggggcga gatgcgagcc acccctctgg ctgctcctgc gggttccctg 360
tccaggaaga agcggttgga gttggatgac aacttagata ccgagcgtcc cgtccagaaa 420
cgagctcgaa gtggggcccca gccagactg cccccctgcc tggtgcccct gagccacct 480
actgctccag atcgtgcaac tgctgtggsc actgntcccc gtyttnggsc ctatgtccty 540
ctkgaagccc gaagaanggc gg 562

```

<210> 526

<211> 2023

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<400> 526

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tggagaaatt atttcaaggt cagctgggtat taaggacgcg ttgcttgga tgtgaaagtt 180
taacagaaag aagagaagat tttcaagaca tcagtgtgcc agtacaagaa gatgagcttt 240
ccaaagtaga ggagagtctt gaaatttctc cagagccaaa aacagaaatg aagaccctga 300
gatgggcaat ttcacaattt gcttcagtag aaaggattgt aggagaagat aaatatttct 360
gtgaaaactg ccatcattat actgaagctg aacgaagtct tttgtttgac aaaatgcctg 420
aagttataac tattcatttg aagtgccttg ctgctagtgg tttggagttt gattgttatg 480
gtggtggact ttccaagatc aacactcctt tattgacacc tcttaaattg tcactagaag 540
aatggagcac aaagccaact aacgacagct atggattatt tgcggttgat atgcatagt 600
gcattacaat tagtagtggg cattacactg cttctgttaa agtcactgac cttaacagtt 660
tagaactaga taaaggaaat tttgtgggtg accaaatgtg tgaaataggt aagccagaac 720
cattgaatga ggaggaagca aggggtgtgg ttgagaatta taatgatgaa gaagtgtcaa 780
ttagagttgg tggaaataca cagccaagta aagttttgaa caaaaaaat gtagaagcta 840
ttggaactct tggaggacaa aagagcaaa cagattatga gctatacaac aaagcctcta 900
atcctgataa gggtgctagt acagcgtttg ctgaaaatag aaattctgag actagtata 960
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cattttcctc agtagagact agtgatgcat tagcttctgg gaacaaactt gtatcgggtc 1440
ttaattaaat tatccaaaac ggaggcattt aaacacttgg atttacacca gtcttttggt 1500
tttgcttttt aaaataaagt gctcgtattt gtattctcca tattttggag taattatcta 1560
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tagttttata agagtcataa agctaaatcc ttgggctatg tcagaggcac aaagtctaga 1680
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tacttgataa tttttataaa tacagctgag ttttcttaaa gcg 2023
```

<210> 527

<211> 2847

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (286)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (290)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2842)

<223> n equals a,t,g, or c

<400> 527

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ggcacaggtt attctgtgtc ttctcatagta gaaaccttaa tgatcggctc gttgtagtga 60
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tgtaaatggt cttttaatta attaaaaaga aattagtcag ctacaagcat gaacatgtgg 180
aacgcttacc tttgtactag gcgtttttgt ttttgtttta atggcttttg gaatattata 240
gtattaacat ctggaaaact aggtaaattt atcttagaat taagtntttn gctccttttt 300
tgcagaaaaa gaacagcaag aagcgattga acacattgat gaagtacaaa atgaaataga 360
cagacttaat gaacaagcca gtgaggagat tttgaaagta gaacagaaat ataacaaact 420
ccgccaacca ttttttcaga agaggtcaga attgatcgcc aaaatcccaa atttttgggt 480
aacaacattt gtcaaccatc cacaagtgtc tgcactgctt ggggaggaag atgaagaggc 540
actgcattat ttgaccagag ttgaagtgtc agaatttgaa gatattaaat caggttacag 600
aatagatttt tattttgatg aaaatcctta ctttgaaaat aaagttctct ccaaagaatt 660
tcatctgaat gagagtgggt atccatcttc gaagtccacc gaaatcaaat ggaaatctgg 720
aaaggatttg acgaaacgtt cgagtcaaac gcagaataaa gccagcagga agaggcagca 780
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gttaggagag gtcacaaag atgatatttg gccaaaccca ttacagtact acttggttcc 900
cgatatggat gatgaagaag gagaaggaga agaagatgat gatgatgatg aagaggagga 960
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gattccaacc ttcctttttt taaattttct ccagtccctg ggagcaagtt gcagtctttt 1140
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cctcctttct ctgtatattg ggctcagaga gtacactgtg tctctatgtg aatatggaca 1500
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acatccttgc agtttaagat gacactttta aaataaattc tctcctaatt atgacttgag 1740
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caagtttgac ttgtataaca tcaactgtca actttgtcac cctaacttcg ttttttttga 2040
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gtattaatat ctccatagct gggaaacgtg ggttcaattt gccattgggt tctgaaagta 2160
ttcacatcat ttgggatacc agatagctca atactctctg agtacattgt gcccttgatt 2220
tttatctcca agtggcagtt tttaaaattg gccttttacc tggatataaa ttaattgtgc 2280
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ctgccaccac catccaacag acctggtgct ctaatgccaa gttatacacg ggacagttgc 2340
tgccatgtct tcattggcta tataaaatgt ggccaagaag ataggctctc agtaagaagt 2400
ctgatggtga gcagtaactg tccctgcttt ctggtataaa gctctcaa atgacatgt 2460
gaatctgggt gggataatgg actcagctct gtctgctcaa tgccattgtg cagagaagca 2520
ccctaatagca taagcttttt aatgctgtaa aatatagtcg ctgaaattaa atgccacttt 2580
ttcagagggtg aattaatgga cagtctggtg aacttcaaaa gctttttgat gtataaaact 2640
tgataaatgg aactattcca tcaataggca aaagtgtaac aacctatcta gatggatagt 2700
atgtaatttc tgcacaggtc tctgtttagt aaatacatca ctgtataccg atcaggaatc 2760
ttgctccaat aaaggaacat aaagatttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2820
aaaaaaaaaa aaaaaaaaaa aaaaaaa 2847

```

<210> 528

<211> 816

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (94)

<223> n equals a,t,g, or c

<400> 528

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aaaacgantg tgtaattaac anaggctgtg cgcataaacg ttgccgttat ggttcgcgaa 60
ttttccccgg cgcccaatgc gagggagacg aaantatgta aatgagtggg ttctggctga 120
gctatcctat tggctatcgg gacaaaattt gcttgagcca atccaaagtg ctccgtggac 180
aatcgccggt ctgtctataa aaaggtgaag cagcggcggt ttccggcgact tcccgatcg 240
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gaggcaaggc ccgcgcccaag gccaaagtcg gctcgctccc cgctggcctt cagttccccg 360
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ccgtctacat ggctgcggtc ctcgagtatc tgaccgccga gatcctggag ctggcgggca 480
acgcggctcg ggacaacaag aagacgcgca tcatccctcg tcacctccag ctggccatcc 540
gcaacgacga ggaactgaac aagctgctgg gcaaagtcac catcgcccag ggcggcgtct 600
tgcctaacat ccaggccgta ctgctcccta agaagacgga gagtcaccac aaggcaaaag 660
gcaagtgagg ctgacgtccg cccaagtggc ccagcccggc ccgcgtctcg aaggggcacc 720
tgtgaactca aaaggctctt ttcagagcca cccacgtttt caaataaaaag agttgttaat 780
gctggcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 816

```

<210> 529

<211> 885

<212> DNA

<213> Homo sapiens

<400> 529

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cccgcggtct tctctgcaaa tgggctccgt ggcctagcgc ccccgctccc gccacccgtg 120
atcgtgcgcc gaggcccgcg aggggtcgcc gccagatcc caccagccag caagctaaag 180
catggcggcc atcccctcca gcggtcgtc cgtggccacc cagcactact accggcgccg 240
cctgggttcc acttccagca acagctcctg cagcagtacc gagtgccccg ggggaagccat 300
tccccacccc ccaggtctcc ccaaggetga cccgggtcat tggtagggcca gcttcttttt 360
cggaagtcc accctcccgt tcatggccac ggtgttgag tccgcagagc actcggaacc 420
tccccaggcc tccagcagca tgaccgctg tggcctggct cgggacgccc cgaggaagca 480
gcccggcggt cagtccagca cagccagcgc tgggcccccg tcttgacctg agcggttacc 540
accagcccca ggctgcgga ggcgtagtc caccagagcc cctyccccgc cctctcccca 600
ctcgcctcc ctcgcccccc tccccacctc ccacccccca cctgtaaaac taggcggctg 660
cagcaagcag accttcgcat caacacagca gacacaaaaa accagtgaga gcccgcctct 720
ctaccgcccg gcccagcac tcgctagctt tcttgacacc tggaactgtg cacctggcac 780
caagcggaata ataaactcca agcagccagt agccccgatg gtgtgtgcct gagctgtgtg 840
gcccgagggt ccaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 885
```

<210> 530

<211> 742

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (693)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (695)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (715)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (730)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (741)

<223> n equals a,t,g, or c

<400> 530

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ggtacctgac agtaccgggtc ggaattcccc ggtcgaccca cgcgtccgct gctgctctta 60
aaggtagagg cctcagggtc cctgctgtag acggggcgagg ggagagtacg atgggtgggg 120
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451

```

cgtggtgggt cgtagggcgc tcgagatgga gccccagct tccttgatgg atcgcggggc 180
gcgagtcccc tagacaagcc ggagctggga ccggcaatcg ggcgttgatc cttgtcacct 240
gtcgcagacc ctcacccctc ccgtgggagc cccctttgga cactctatga ccctggaccc 300
tcggggggacc tgaacttgat gcgatgggag gctgtgcagg ctcgcgggcg cgcttttcgg 360
attccgaggg ggaggagacc gtcccggagc cccggctccc tctgttgga catcagggcg 420
cgcattggaa gaacgcggtg ggcttctggc tgctgggcct ttgcaacaac ttctcttatg 480
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gccatgtgga cccaggccca acgccgatcc cccacaacag ctcacacga ttgactgca 600
actctgtctc tacggctgct gtgtcctgga cggacatcct cccacactc gtcacaaat 660
tgttggstyc tyttggsctt cacctgctgc cctnaccgt tgaggatgct gtgantctct 720
gtgctttatn ggggacagct ng 742

```

<210> 531

<211> 525

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (502)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (510)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (523)

<223> n equals a,t,g, or c

<400> 531

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cgarccctcg gtggtcctca gggagggtct ctgggccaga acacgtggat gccacccac 120
cactgagcct catggaggtg gtaacatttg gcgatgtggc tgtgcacttc tctcgggagg 180
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acagcagtgt ggctggacta gcaggattcc tggttttcaa gcctgagctg atctctcggc 300
tggagcaggg agaagagcca tgggtcctcg acctgcargg agcagagggg acagaggcac 360
caargacctc caagacaggt gaggtctaga tcccatcgca gagaagccct ggggtgarga 420
gaaactkcar gaggggctca caactgtrgg tagctgtagg tgartcgcg gggctacact 480
kggatgcctg ggaatgctac tnggggaaan cagcatccaa canct 525

```

<210> 532

<211> 1925

<212> DNA

<213> Homo sapiens

<400> 532

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gtggtctgag gccggtacag ctgcgcgtct gcgggaatag gtgcagcggg cccttggcgg 60
gggactctga gggaggagct ggggacggcg accctaggag agttcttttg ggtgactttc 120

```

```

aagatggact ctactctaac agcaagtga atccggcagc gatttataga tttcttcaag 180
aggaacgagc atacgtatgt tcaactcgtct gccaccatcc cattggatga cccactttg 240
ctctttgcc aatgcaggcat gaaccagttt aaaccattt tctgaacac aattgacca 300
tctcacccca tggcaaagct gagcagagct gccaatacc agaagtgc atccggctggg 360
ggcaaacata atgacctgga cgatgtgggc aaggatgtct atcatcacac cttcttcgag 420
atgctgggct cttggtcttt tggagattac tttaaggaat tggcatgtaa gatggctctg 480
gaactcctca cccaagagtt tggcattccc attgaaagac tttatgktac ttactttggc 540
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attaagaaag gagacaagtt ccatgggata caacctccct cttgttttgt ttgtctctcc 1800
ttttcttttg ttactgttct tgctgctaga acttttttaa ataaactttt tttcaatgtg 1860
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg 1920
ggggggg                                     1925

```

<210> 533

<211> 502

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (469)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (482)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (487)

<223> n equals a,t,g, or c

<400> 533

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catagaggca aacggtacac tgacagtacc gtccggaatt cccgggtcga cccacgcgtc 60
cgggtccgcaa agcctgagtc ctgtcctttc tctctccccg gacagcatga gcttcaccac 120
tcgctocacc ttctccacca actaccggtc cctgggctct gtccaggcgc ccagctacgg 180
cgccccggccg gtcagcagcg cggccagcgt ctatgcaggc gctgggggct ctggttcccc 240
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aagctgaacg accgcctggc ctcttacctg gacaaaatga aggagcctgg agaccgagaa 420
accggagggt ggaaagcaaa aaccggggag cactttggag aagaagganc ccaggtcaga 480
gnctggnagc cattaattca ag                                     502
```

<210> 534

<211> 1800

<212> DNA

<213> Homo sapiens

<400> 534

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tggaactcgtt ggagaagggg gccgccacct ccgtctccaa cccgcggggg cgaccgtccc 180
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ccaaacaatt tgggtgcaca gtatcatcga gaagtctga agtttcaaaa gacagctcta 480
cctcactaga tgccatcata gaattttctt attatcataa tgaggttgac attgtaggaa 540
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ggcctcgtcg acaagactgg gatggagaat tatatgaaaa tggctcattt tattttgcta 780
aaagacattt gatagagatg ggttacttgc aggggtggaaa aatggcatac tacgaaatgc 840
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tattaagata tggctatttt ggcaaagaga agcttaagga aataaaactt ttggtttgca 960
atattgatgg atgtctcacc aatggccaca tttatgtatc aggagaccaa aaagaaataa 1020
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<210> 535

<211> 2497

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2467)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2487)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2493)
<223> n equals a,t,g, or c

<400> 535
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<210> 536

<211> 4090

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (42)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (528)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (535)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2475)

<223> n equals a,t,g, or c

<400> 536

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<210> 537

<211> 586

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<400> 537

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<210> 538

<211> 1250

<212> DNA

<213> Homo sapiens

<400> 538

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<210> 539
<211> 1350
<212> DNA
<213> Homo sapiens

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<222> (1305)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1349)
<223> n equals a,t,g, or c

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<210> 540
<211> 2509

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (367)

<223> n equals a,t,g, or c

<400> 540

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<210> 541

<211> 1743

<212> DNA

<213> Homo sapiens

<400> 541

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1743

<210> 542

<211> 2210

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<400> 542

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<210> 543

<211> 1715

<212> DNA

<213> Homo sapiens

<400> 543

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<210> 544

<211> 3109

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1011)

<223> n equals a,t,g, or c

<400> 544

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tgccaagata tggtttttga gaggcagggc agcctaaatt tggcattgaa cctaattgctg 180
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gtgacaaggc ccttggaactg gacagtgcc atgagaaagg cttgtatagg aggggtgaa 540
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```

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<210> 545

<211> 1176

<212> DNA

<213> Homo sapiens

<400> 545

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<210> 546

<211> 1735

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<400> 546

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<210> 547

<211> 1048

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1043)

<223> n equals a,t,g, or c

<400> 547

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<210> 548

<211> 736

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (719)

<223> n equals a,t,g, or c

<220>

<221> misc feature
 <222> (724)
 <223> n equals a,t,g, or c

<220>
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 <222> (727)
 <223> n equals a,t,g, or c

<220>
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 <222> (734)
 <223> n equals a,t,g, or c

<400> 548

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ctantntaa atcncg 736
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<210> 549
 <211> 2231
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (2224)
 <223> n equals a,t,g, or c

<400> 549

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<210> 550

<211> 1816

<212> DNA

<213> Homo sapiens

<400> 550

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```

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<210> 551

<211> 2610

<212> DNA

<213> Homo sapiens

<400> 551

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<210> 552

<211> 4021

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4000)

<223> n equals a,t,g, or c

<400> 552

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<210> 553

<211> 1780

<212> DNA

<213> Homo sapiens

<400> 553

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<210> 554

<211> 3713

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3006)

<223> n equals a,t,g, or c

<400> 554

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<210> 555

<211> 1997

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (1887)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1951)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1980)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1992)

<223> n equals a,t,g, or c

<400> 555

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<210> 556

<211> 906

<212> DNA

<213> Homo sapiens

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<222> (12)

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<221> misc feature

<222> (879)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (906)

<223> n equals a,t,g, or c

<400> 556

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<210> 557

<211> 3484

<212> DNA

<213> Homo sapiens

<400> 557

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<210> 558

<211> 790

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (788)

<223> n equals a,t,g, or c

<400> 558

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477

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<210> 559

<211> 558

<212> DNA

<213> Homo sapiens

<400> 559

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<211> 534

<212> DNA

<213> Homo sapiens

<220>

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<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<400> 560

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<210> 561

<211> 3043

<212> DNA

<213> Homo sapiens

<220>
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<222> (3038)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3039)
<223> n equals a,t,g, or c

<400> 561

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<210> 562

<211> 1386

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (480)

<223> n equals a,t,g, or c

<400> 562

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<210> 563

<211> 2638

<212> DNA

<213> Homo sapiens

<400> 563

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<211> 691

<212> DNA
 <213> Homo sapiens

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<220>
 <221> misc feature
 <222> (650)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (653)
 <223> n equals a,t,g, or c

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<210> 565
 <211> 1967
 <212> DNA
 <213> Homo sapiens

<400> 565

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<210> 566

<211> 1334

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (1253)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1307)

<223> n equals a,t,g, or c

<220>
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<222> (1309)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1312)
<223> n equals a,t,g, or c

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<210> 567
<211> 1610
<212> DNA
<213> Homo sapiens

<400> 567
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<210> 568

<211> 1412

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1018)

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<220>

<221> misc feature

<222> (1037)

<223> n equals a,t,g, or c

<400> 568

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<210> 569

<211> 1125

<212> DNA

<213> Homo sapiens

<400> 569

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gagaagggtg ccgaggcccg caaaagaaag aaccggaggg tgaagcaggc caaagaagaa 240
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<210> 570

<211> 1916

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1899)

<223> n equals a,t,g, or c

<400> 570

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ccccggtggg cgagggggag gcagggatcc ttctctctca gctctaatat ataaggacga 360

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gaagctcact gtgacccagg acctccctgt gaatgatgga aaacctcaca tcgtccactt 420
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gattgggtga gggggacggg gatgtcaggg aggcaagtgt gttgtgttac tgtgtcaata 1860
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<210> 571

<211> 1253

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1205)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1207)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1212)

<223> n equals a,t,g, or c

<400> 571

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gccgcagtc cagcgcttcc aaccgtttct gcggcagctc tggaggccgc ggctttggct 180

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<210> 572

<211> 2013

<212> DNA

<213> Homo sapiens

<400> 572

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cacctccca gagaactcct tgaggagaac aagtgccctt ggggacagcc ggcakgcgcc 180
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<210> 573

<211> 669

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (445)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (631)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (638)

<223> n equals a,t,g, or c

<400> 573

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cggcccggcg gcgcccgcct cctccacggc cactccgcct cttccctccc ttcgtccett 120
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gccggggggac gagctcggag cagcagccag agtttattaa ccacttaacc tctcagaact 240
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ccaaagcggg tgaggatcct gcagaatgag cccctggcag aagagggctg aggtgaaagg 600
aagagaatcc gaagaagaaa actcaataaa nctgaaanaa agcaaggggt tgagatgcct 660
taaacggga 669

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<210> 574

<211> 2432

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2326)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2367)

<223> n equals a,t,g, or c

<400> 574

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aaaaaaaaaa aaagggsggc cgctctaaaa gatccaaggg gccaanctta cccttgcatg 2340
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<210> 575

<211> 1372

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (71)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1335)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1338)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1370)

<223> n equals a,t,g, or c

<400> 575

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 ttggggggggg ccccntancc aattggccct aaagggggggg tttaaaaaan aa 1372

<210> 576

<211> 2020

<212> DNA

<213> Homo sapiens

<400> 576

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<211> 3161

<212> DNA

<213> Homo sapiens

<400> 577

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3161

<210> 578

<211> 2046

<212> DNA

<213> Homo sapiens

<400> 578

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<210> 579

<211> 302

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (226)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (241)

<223> n equals a,t,g, or c

<400> 579

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<210> 580

<211> 3067

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (626)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1808)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2945)

<223> n equals a,t,g, or c

<400> 580

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<210> 581

<211> 1574

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (457)

<223> n equals a,t,g, or c

<400> 581

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<210> 582

<211> 960

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (924)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (937)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (939)

<223> n equals a,t,g, or c

<400> 582

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<210> 583

<211> 541

<212> DNA

<213> Homo sapiens

<400> 583

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541

<210> 584

<211> 2968

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (454)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1437)

<223> n equals a,t,g, or c

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<210> 585

<211> 2608

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (84)

<223> n equals a,t,g, or c

<400> 585

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<210> 586

<211> 1893

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1184)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1865)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1883)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1887)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1893)

<223> n equals a,t,g, or c

<400> 586

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<210> 587

<211> 2463

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2413)

<223> n equals a,t,g, or c

<400> 587

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<210> 588

<211> 1945

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1240)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1939)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1945)

<223> n equals a,t,g, or c

<400> 588

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<210> 589

<211> 816

<212> DNA

<213> Homo sapiens

<400> 589

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<210> 590

<211> 2307

<212> DNA

<213> Homo sapiens

<400> 590

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<211> 1438
<212> DNA
<213> Homo sapiens

<400> 591
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<210> 592
<211> 1078
<212> DNA
<213> Homo sapiens

<400> 592
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<210> 593

<211> 2492

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2113)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2452)

<223> n equals a,t,g, or c

<400> 593

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<210> 594

<211> 1904

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1878)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1893)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1895)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1903)

<223> n equals a,t,g, or c

<400> 594

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<210> 595

<211> 337

<212> DNA

<213> Homo sapiens

<400> 595

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<210> 596

<211> 1288

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1283)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1285)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (1287)
<223> n equals a,t,g, or c

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<210> 597
<211> 1052
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (937)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (943)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (995)
<223> n equals a,t,g, or c

<220>
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<222> (1004)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1009)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (1040)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1051)

<223> n equals a,t,g, or c

<400> 597

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<210> 598

<211> 2093

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (969)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1422)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1425)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1481)
<223> n equals a,t,g, or c

<400> 598

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gcacccatgc acacacctac gcacacacaa cactccgcac tgcagtatat tcttgccaaa 180
gatttccttt aaaagcaagc acttttacta attattattt tgtaaatgtt tatcttcttc 240
tgtcttctcc ctccctgaat ctattttact gttgtttatt gttgaatctg tgtgtcagcc 300
aggagagcgc tgtctggcct tgaacatggg ctgggatggg aaagggtctg ggagaagatg 360
ggcaacaaag agccaggagag tcatggacat cgcagcgacg cagaccccag cagggttcagt 420
cccgtgctgc caccagctgt ccagctgggt gtctggaggg aagagggcag aggaggggtca 480
tgtcccttca gctgggggag gggcccagtg agtccacgt ggctttttcc caaaggggagc 540
aagaggggaag gattgggga gaaaacaatg gagaggggac ctgcgaagga aaacaggagag 600
gaagtgagcg gtttgatcag cctgctatca cgtgttctg gctctcttat ttagccaggc 660
gcttaaggga cagatacatc acatcctaag tttgggaaag gcctttgacc catgtcatct 720
gagcgtctcc tccagtagct ctgaaagctg tggacaccaa tggccaggat tccttctccc 780
ctggtttttg aggatccctg ggtcttctga gactggccag gagagggatg gtggggccag 840
tggttggtg aaagcaggag gggcagccct cctggacaag tgtgatcccc ctataaacgg 900
ctctcaggag gttagttagt aggagattct gccttggtct gatgagcctg tgcaggggct 960
ccagggganc atgctgtcca gggggcacag aagggtggtg agtgtgatca aatctagtct 1020
cactcccact ttttagtctc actcctactt ttgtccacca cccctgcctc ctggatcttc 1080
tcccactttt tttttcagct ttaggacctg gggagatcct gtgagtcaag gcagacaccc 1140
aatcctgccc ccacactcgg ggtcctccaa gaggttgggg ggcagagtcc cagagcagcc 1200
ctttacccca ggtccaggcc ctggaatcct gagactcgcg tttccttggc cagtggtaac 1260
acaggacgtg tgtgcgcatg tgcaagtgtg gatgtatgtg tgtgcgtgtg ttttgctcat 1320
ttcttttagg aacttgggag tcgggggttg aggtgctggg caatggaact tcaaattcaa 1380
tgtcgcccag cagtgagggg agtcgggagg tgaggcctgt angcnaacca attggtggag 1440
tctcagcgat acccaggtga gaagtgggtc acccagaggg ncagggtggg ggcctcgggc 1500
agatctgtcc ctcttgccc ctctgtcctc aaatgtccaa aatgttggag gacctctgtt 1560
catatcccac gcctgggctc ttgccagcag tggagttact gtagagggat gtcccaagct 1620
tgttttccaa tcagtgttaa gctgtttgaa actctcctgt gtctgtgttt tgtttgtgcg 1680
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gacccatcat tgagaacaaa tgtaagaaat cccttcccac caccctccct gcctcccagg 1800
ccctctgcgg gggaaacaag atcaccagc atccttcccc accccagctg tgtatttata 1860
tagatggaaa tatactttat attttgtatc atcgtgccta tagccgctgc caccgtgtat 1920
aaatcctggt gtmtgctcct taccctggac atgaatgtat tgtacactga cgcgtcccca 1980
ctcctgtaca gctgctttgt ttctttgcaa tgcattgtat ggctttataa atgataaagt 2040
taaagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 2093
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<210> 599
<211> 562
<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (349)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (383)

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<220>

<221> misc feature

<222> (437)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (445)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (473)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (524)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (549)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (561)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (562)

<223> n equals a,t,g, or c

<400> 599

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ctgaggccac aggcacacac cgccacacct ggctaatttt tattattttt tttgtagaga 120
cgagggtctca ctatgccacg gttggtctca aactcctgtg ctcaagcaat cctcccatct 180

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tggctcccta agtgctggga ttataggcat gagccaccgt gcccggcctc atgtctgcat 240
gttaaaagtt ctgagaattc ctatggaaaa taaatttgac tttgcttaat gcagttcctc 300
taaacttact taattccttt ttcttttttt ctttactatt tattaattnt tctcttttct 360
cagaccttgc agggatgaaa ggnccccctt tctcaaaacc ctcttatgat ctctacactc 420
tgcaagggct tctgaangac agcangctga gaaaggccga tcctaacact tanctctttg 480
aagacacttt taaaactggg aacagtattt atagctttaa aagnacccat ggttcttaag 540
gcccggttant aaaaaaaaaa nn 562
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<210> 600

<211> 528

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

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<221> misc feature

<222> (104)

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<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (444)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (493)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (507)

<223> n equals a,t,g, or c

<400> 600

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gccgctctag aactagtggg tccccgggc tgcaggaatt cggnacgagg gaggctgagg 120
ctggagtgcg gtggtgtgat ctgggtcac tgcaacctct gcctcccagg ttccagcaat 180
tctcctgcct cagcctccct agtggctggg atgacaggcg cctgccatca tgcctgacta 240
gtttttgtat ttttagtaga gacggcggtt caccatgttg gccaggctgg tctcaaactc 300
ctgacctcag gtgatccgcc tacctcagcc tcccaaagtg ctgggattac aggcgtgatc 360
caccacacct ggcccttgca atcttctact ttaagggttg cagagataaa ccaatanatc 420
cacaccgtac atctgcaata tganttcaag aaaggaanta gtaccttcaa tacttaaaaa 480
tagtcttcca canaaaatac tttattnctg atctatacaa attttcag 528
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<210> 601

<211> 475

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (145)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (160)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (172)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (174)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (185)

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<220>

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<222> (191)

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<220>

<221> misc feature

<222> (199)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (212)

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<220>

<221> misc feature

<222> (218)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (250)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (297)

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<220>

<221> misc feature

<222> (302)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (306)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (341)

<223> n equals a,t,g, or c

<220>
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 <222> (389)
 <223> n equals a,t,g, or c

<220>
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 <222> (413)
 <223> n equals a,t,g, or c

<220>
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 <222> (444)
 <223> n equals a,t,g, or c

<220>
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 <222> (450)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (468)
 <223> n equals a,t,g, or c

<400> 601
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 atattttgcg agtactcaac accaaccatcg atgggcggcg gaaaatagcc tttgccatca 120
 ctgccattaa ggggtgtggc cgaanatatg ctcatgtggn gttgaggaaa gnanacattg 180
 acctnaccaa nagggcggn gaactcactg angatgangt ggaacgtgtg atcaccatta 240
 tgcagaatcn acgccagtac aagatcccag actggttctt gaacagacag aatgatngta 300
 angatnaatc tacttcaagc taacatgcta tcatttctac nttgagtact gctaagggtt 360
 ctttccacaa cttgtacaca atgttattna ctgccagtt tataatttcc ctnttggttc 420
 ccattttaag acttatttaa ttantatgcn ttttaaattt ttgagacntg ataga 475

<210> 602
 <211> 288
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (84)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (100)
 <223> n equals a,t,g, or c

517

<400> 602

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cacattctca ggaactctcc ttctttgggg agcctcagat gggaagggac tcgagcccca 60
cctgtccctg gactctggaa tgtntggctg aagttgaggn tctcttactc tctaggccac 120
ggaattaacc cgagcaggca tggaggcctc tgctctcacc tcatcagcag tgaccagtgt 180
ggccaaagtg gtcaggggtg cctctggctc tgccgtagtt ttgcccctgg ccaggattgc 240
tacagttgtg attggaggag ttgtggccat ggcggtgtg cccatggt 288

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<210> 603

<211> 432

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (365)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (408)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (416)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (421)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<400> 603

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gacttggtgt gggactgctg ataggaagat gtcttcagga aatgctaaaa ttgggcaccc 120
tgcccccaac ttcaaagcca cagctgttat gccagatggt cagtttaaaag atatcagcct 180
gtctgactac aaaaggaaaa tatgttgtgt tcttctttta cctctttgac ttcaccttg 240
tgtgccccac ggagatcatt gctttcagtg atagggcaga agaatttaag aaactcaact 300
gccaaagtgat tgggtgcttct gtggattctc acttctgtca tctagcatgg gtcaatacac 360
ctaanaaaca aggaggactg ggacccatga acattccttt ggtatcanac ccaacncaca 420
nttgntcagg at 432

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<210> 604

<211> 371

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (282)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (291)
<223> n equals a,t,g, or c

<400> 604
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agagaagagt tgggttaaaaa ccttggtacc atagccaaat ctgggacaag cgagttttta 120
aacaaaatga ctgaagcaca ggaagatggc cagtcaactt ctgatttgat tggccagttt 180
ggtgtcgggtt tctattccgc cttccttgta gcagataagg ttattgtcac ttcaaaacac 240
aacaacgata cccagcacat ctgggagtct gactccaatg anttttctgt naattgctga 300
cccaagaggg aaacactcta ggacggggga acgacaattt acgtggagta tggaccaatt 360
tccttattaa g 371

<210> 605
<211> 392
<212> DNA
<213> Homo sapiens

<220>
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<222> (292)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (330)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (331)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (363)
<223> n equals a,t,g, or c

<400> 605

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ctttcaggat taagcgattc ctggccaaga aacaaaagca aaatcgtccc attccccagt 120
ggattcggat gaaaactggg aaataaaatc aggtacaact ccaaaggag acattggaga 180
agaaccaagc tgggtctatg aaggaattgc acatgagatg gcacacatat ttatgctgtc 240
tggaagggtgc acgatccatg ttaccatatg caagctggaa aatgtgcacc antatctggg 300
agattttcga cgtgtttttc cnctctggan nctgtttatg gnacaagggtt ggtttgggtt 360
ggntccatta aattaaatta ggtaaaggcc cc 392
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<210> 606
<211> 442
<212> DNA
<213> Homo sapiens

<220>

<221> misc feature
<222> (255)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (312)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (368)
<223> n equals a,t,g, or c

<400> 606

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gcgtcttcag ggtggaagcc tggcgacgt ccggagagac acccgccatt tcaccagta 60
agcgggcccg gcctgcggag gtgggcggca tgcagctccg ctttgcccgg ctctccgagc 120
acgccacggc cccacccgg ggctccgcgc gcgcgcggg ctacgacctg tacagtgcct 180
atgattacac aataccacct atggagaaag ctgttgtgaa aacggacatt cagatagcgc 240
tcccttctgg gtgtnatgga agagtggctc cacggtcagg cttggctgca aaacacttta 300
ttgatgtagg antggtgtca tagatgaaga ttataagagg aatgttggtg ttgtactgtt 360
taattttngg caagaaagtt tgaagtcaaa aaagtgatc gaattgcaca gtcatttgca 420
acggattttt tatccagaaa ta 442
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<210> 607
<211> 182
<212> DNA
<213> Homo sapiens

<220>

<221> misc feature
<222> (53)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (124)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

<400> 607

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agaaagtggg tgatccattt tttaagaaag attggtatga tgtgaaagca cctgctatgt 120
tcantataag anatattgga aagacgctcg tcaccaggac ccaaggaacc aaaattgcat 180
ct 182
```

<210> 608

<211> 673

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (561)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (569)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (603)

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<220>

<221> misc feature

<222> (604)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (627)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (630)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (652)

<223> n equals a,t,g, or c

<400> 608

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atcaccacag gactattcct agccatgcac tactcaccag acgcctcaac cgccttttca 180
tcaatcgccc acatcactcg agacgtaaat tatggctgaa tcatccgctg ccttcacgcc 240
aatggcgccct caatattctt tatctgcctc ttcttacaca tcgggcgagg cctatatattac 300
ggatcatttc tctactcaga aacctgaaac atcggcatta tcctcctgct tgcaactata 360
gcaacagcct tcataggcta tgtctcccg tgaggccaaa tatcattctg aggggccaca 420
gtaattacaa acttactatc cgccatccca tacattggga cagacctagt tcaatgaatc 480
tgaggaggct actcagtaga cagtcccacc ctcacacgat tctttacctt tcaacttcac 540
ttgcccttca ttattggcag ncctacagna ctcacctcta ttttttgccg aaacgggggat 600
canncaaccc ccttagggaa tcacctnccn tttccgataa aaatcaacct tncacccttt 660
actacacaat cat 673
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<210> 609

<211> 553

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (377)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (497)

<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (536)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (545)
 <223> n equals a,t,g, or c

<400> 609
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 aaacttttgg acgacaatgg gaacattgct gaagaactga gcattctcaa atggaacaca 120
 gacagtgtag aagaattcct gaggtaaaag ttggaacgca tataaatcct gcttaaattt 180
 tgccttatcc tttgtttacc ttatcaaag aaatattaca gcacctagaa aataatttag 240
 ttttgcttgc ttccattgat cagtctttta cttgaggcat taaatatcta attaaatcgt 300
 gaaatggcag tatagtccat gatatctaag gaggtagcaa gcttaacaaa acccattttt 360
 tataaatgtc catcctnctg catttggtga taccactaac aaaatgcttt gtaacagact 420
 tgcggttaat tatgcaaag atagtttgng ataattgggg ccaagtttta cgaacaacag 480
 atttctaaat tagaganggt taccaggaca gatgatacta tgcctaaggg ctgggngccc 540
 ttttnaagga aga 553

<210> 610
 <211> 458
 <212> DNA
 <213> Homo sapiens

<220>
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<220>
 <221> misc feature
 <222> (18)
 <223> n equals a,t,g, or c

<220>
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 <223> n equals a,t,g, or c

<220>
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 <222> (225)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (281)
 <223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c

<220>
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<222> (314)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (412)
<223> n equals a,t,g, or c

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<221> misc feature
<222> (430)
<223> n equals a,t,g, or c

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<221> misc feature
<222> (442)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (456)
<223> n equals a,t,g, or c

<400> 610
accacgcgt cggctnncc gatgagacca atatatgcaa tggtaagcca gtagatggac 60
tgactacttt gcgcaatggg acattagttg cattccgagg tcattatttc tggatgctaa 120
gtccattcag tccaccatct ccagctcgca gaattactga agttttgggg aatcctttcc 180
cccattgata ctgttttact aagggaatt tttcnagaaa aggtngcagc attcagcagt 240

524

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atatttataa acaggaacct gtacagaagt gcccttgga naaggcctgc tctaaaatta 300
tccagtggta tngngnaacg acacaggtta agagacgtcg cttnaacgtg ctaaaaggac 360
ctttccaana cacaccatca gaatccataa tcacctgcca aatgggggtat cnagaccaag 420
gggcctccan aaggagttaa gnggttaccg tggggngg 458
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<210> 611
<211> 565
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (469)
<223> n equals a,t,g, or c

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<220>
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ctctagaact agtggatccc ccgggctgca ggaattcggc acgaggttgc agtgagccga 120
gatcgcacca ttgcactcca gtctgggcaa cagagtgaga ttccgtctca aaaaaaaaaa 180
gaaaaggaaa aaaaaatagc attatacctc ttccttgtct caaccgcat gaaaattctg 240
aacactccaa attcagttga ataatccaaa acaaaattta taagtataaa ataattttac 300
ttcttatagt aatagtatac tttaaaaagc ctcagggtat attatcttct aaacagctac 360
aattcagtg agctacatta accaactatg ttctctagtt gaggaacaac taggcctatt 420
tcaactgctgt gtagcctcag tgcctaacat gggtgccaaa taaatatnng nggattacac 480
tgaattgtaa aaaccattcg tttttgttta caattgccaa aaatctcaaa aggnccctgta 540
tttatgtaat tctttgaaat tatta 565
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<210> 612
<211> 442
<212> DNA
<213> Homo sapiens

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<222> (253)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<220>
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<222> (297)
<223> n equals a,t,g, or c

<220>
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<220>
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cgcttttcgc gcgcccagca ttcacggggg ctccggcggc cgcggcgtat ccgtgtcctc 180
cgcccgcctt gtgtcctcgt cctcctcggg gggctacggc ggcggctang gcggcgctcct 240
gaccgcgtcc gangggctgc tggcgggcaa cgagaagcta accatgcaga actnaangac 300
cgcttggctt ctactggana agttcgcnc tgnaggggca aagggaacta aaagttaaat 360
cegcnattgt acaaaacagg gcttggcctt cccggataaa gcattataaa gancntcagg 420
aattggggaa aaatttttgn nc 442

<210> 613
<211> 306
<212> DNA
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<222> (102)
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<220>
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<222> (172)
<223> n equals a,t,g, or c

<220>
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<222> (185)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (190)
<223> n equals a,t,g, or c

<220>
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<222> (192)
<223> n equals a,t,g, or c

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<222> (199)
<223> n equals a,t,g, or c

<220>
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<222> (213)
<223> n equals a,t,g, or c

<220>
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<222> (237)
<223> n equals a,t,g, or c

<220>
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<222> (272)
<223> n equals a,t,g, or c

<220>
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<222> (299)
<223> n equals a,t,g, or c

<220>
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<222> (302)
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<400> 613
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cttccgaacc aagtttgaga cggaacaggc tctgcgcatg ancgtggagg ccgacatcaa 120
cggcctgcnc aggtgctgga tgagctgacc ctggcccaga accgaccttg gngatgcagt 180
tcgangcctn angaagagnt ggcctaccta agnaggaccc tgaggggggaa tcaattncgt 240
taagggggcca atggggaggcc attaattttg anttggttcc ttccggacct tttggccant 300
cntgtt 306

<210> 614
<211> 555
<212> DNA
<213> Homo sapiens

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<220>
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<222> (409)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (433)
<223> n equals a,t,g, or c

<220>
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<220>
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<222> (543)
<223> n equals a,t,g, or c

<220>
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<222> (545)
<223> n equals a,t,g, or c

<400> 614
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accattgaga actccaggat tgtcctgcag atcgacaatg cccgtctggc tgcagatgac 120
ttccgaacca agtttgagac ggaacaggct ctgcgcatga gcgtggaggc cgacatcaac 180
ggcctgcgca gggtgctgga tgagctgacc ctggccagga cgcacctgga gatgcagatc 240
gaaggcctga aggaagagct ggcctacctg aagaagaacc atgaggagga aatcagtacg 300
cttagggggc aagtgggagg ccagggtcagt gtggagggtg attccgctcc gggcaccgat 360
ctcgccaaga tcctgagtga catgcgaagc cnatatgagg tcatggccna gcagaaccgg 420
aaggatgctt aancctggtc accagcccgg actgaagaat tgaaccggga ggtcgcttgc 480
cacacggagc aacttcngat gagcagggtcc aaggttactg acctgcggcg caacccttaa 540
ggncntgaga atgaa 555

<210> 615
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<212> DNA
<213> Homo sapiens

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<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (173)

<223> n equals a,t,g, or c

<400> 615

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ctctagaact agtggatccc ccgggctgca ggaattcggc acgaggctaa ggctgcgttg 120
gggtgaggcc ctcaacttcat ccggcgacta gcaccgcgtc cggcagcgcc agncctacac 180
tcgcccgcgc catggcctct gtctccgagc tcgcctgcat ctactcggcc ctcattctgc 240
acgacgatga ggtgacagtc acggaggata agatcaatgc cctcattaaa gcagccggtg 300
taaatgttga gccttttttg cctggcttgt ttgcaaaggc cctggccaac gtcaacattg 360
ggagcctcat ctgcaatgta ggggcccggg gacctgctcc agcagctggt gctgcaacca 420
gcaggaggtc ctgccccctc cactgctgct gctccagctg aggagaagaa agtggaaagca 480
aagaaagaag aatccgagga gtctgatgat gacatgggct ttggtctttt tgactaaacc 540
tcttttataa catgttcaat aaaaagctga acttt 575
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<210> 616

<211> 346

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (117)

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<220>

<221> misc feature

<222> (139)

<223> n equals a,t,g, or c

<400> 616

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gtcgctcctt acctgctggc tgccctaggg ggcaactcct cccccagcgc caagggnatc 120
aagaagatct tggacaacnt gggtatcgag gcggacgacg accgggtcaa caaggttatc 180
agtgaagctga atggaaaaaa cattgaagac gtcattgccc aggggtattg caagcttgcc 240
agtgtacctg ctggtggggc tgtagccgct tctgctgccc caggctctgc agcccctgct 300
gctggttctg cccctgctgc agcagaggag aagaaagatg agaaga 346
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530

<210> 617
 <211> 409
 <212> DNA
 <213> Homo sapiens

<220>
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<220>
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 <222> (380)
 <223> n equals a,t,g, or c

<220>
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 <222> (388)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (397)
 <223> n equals a,t,g, or c

<220>
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 <222> (408)
 <223> n equals a,t,g, or c

<400> 617
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 tcccgttccg ctgcccgcgc tgccaccatg acggaacagg ccatctcctt cgccaaagac 120
 ttcttggccg gaggcacgc cgccgccatc tccaagacgg ccgtggctcc gatcgagcgg 180
 gtcaagctgc tgctgcaggt ccagcacgcc agcaagcaga tcgccgccga caagcagtac 240
 aagggcatcg tggactgcat tgtccgcac cccaaggagc agggcggtgt gtccttctgg 300
 aggggcaacc ttgccaacgt cattcgctac ttccccactc aagccctcaa cttcgnettc 360
 aaggataagt acaagcagan cttcctgnng ggcgtgnaca agcacacnc 409

<210> 618
 <211> 473
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (9)
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<220>
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<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

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<222> (256)
<223> n equals a,t,g, or c

<220>
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<222> (322)
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<222> (337)
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<220>
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<222> (365)
<223> n equals a,t,g, or c

<220>
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<222> (368)
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<220>
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<222> (416)
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<220>
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<222> (442)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (446)
<223> n equals a,t,g, or c

<220>
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<222> (470)
<223> n equals a,t,g, or c

<400> 618
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gagagggggc gactattata caagttggca agttgatcaa agaagctgcc gggaaaagca 120
atctgaagag ggtgaccctg gagcttggag gaaagagccc ttgcattgtg ttagctgatg 180
ccgacttgga caatgctgtt gaatttgcac accatggggg attctaccac cagggccagt 240
nttgatatgc cgcattncagg atttttgttg aagaatcaat ttatgatgag tttgttcgaa 300
ggagtgttga gcgggttaag antatatacct tgggaantcc tttgacccca gnagttcann 360
caagnccntc agattgacaa ggaccatttg gtaaataactt gacccattg agagtnggaa 420
gaaagaaggg gccaanatgga tntggnggag gccctggggg ataaagggtan ttg 473

<210> 619
<211> 604
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
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<220>
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<222> (371)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (440)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (492)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (500)

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<220>

<221> misc feature

<222> (537)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (554)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (584)

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<221> misc feature

<222> (587)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (593)

<223> n equals a,t,g, or c

<400> 619

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gaactagtgg atcccccggg ctgcaggaat tcggcacgag gtggtccccc tggcagggac 120
aaatggcgag actaccaccc aagggttggg tgggctgtct gagcgctgtg cccagtacaa 180
gaaggacgga gctgacttcg ccaagtggcg ttgtgtgctg aagattgggg aacacaccccc 240
ctcagccctc gccatcatgg aaaatgccaa tgttctggcc cgttatgccg gtatctggca 300
gcagaatggc attgtgcccc tcgtggagcc tgagatcctc cctgatgggg accatgactt 360
gaagcgcttg ncagtatgtg accgaaaagg tgcttggett gctgctacaa ggctcttgag 420
tgaccaccac atctacctgn aaggcacctt gctgaagccc aacatggtcc cccagggccat 480
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gcttgcactc anaagttttn ttatgaagga gattgcccac ggcgaacccg tctcaanccg 540
tgtgcccgc caantgcccc cccgcttgtc acttgggatc aacnttncct gtnttggaag 600
gcca 604

<210> 620
<211> 312
<212> DNA
<213> Homo sapiens

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<220>
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<222> (41)
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<220>
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<222> (307)
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<220>
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<222> (309)
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<220>
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<222> (310)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (311)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c

<400> 620
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ccagcgagtc cctcttcgtc tctaaccacg cctattaagc ggagggtgtc ccaggctgcc 120
cccaacactc caggccctgc cccctcccac tcttgaagag gaggccgcct cctcggggct 180
ccaggctggc ttgccgcgc tctttcttcc ctggtgacag tgggtgtgtg tgcgtctgt 240
gaatgctaag tccatcacc tttccggcac actgccaaat aaacagctat ttaaggggga 300
aaaaaanann nn 312

<210> 621
<211> 248
<212> DNA
<213> Homo sapiens

<220>
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<222> (141)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (193)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (195)
<223> n equals a,t,g, or c

<220>
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<222> (198)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c

<220>
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<222> (246)
<223> n equals a,t,g, or c

<400> 621
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ggttgacaga aacacactgg ggaatggagc aaaacagtct ttgaatatcg aacacgcaag 120
gctgtgagac tacctattgt ngatattgca ccctatgaca ttggtgggtcc tgatcaagaa 180
tttggtgtgg acntnggncc tgtttgnttt ttataaacca aactctatct gaaatcccaa 240
caaaanaa 248

<210> 622
<211> 344
<212> DNA
<213> Homo sapiens

<220>
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<220>

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<222> (19)

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<222> (31)

<223> n equals a,t,g, or c

<220>

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<222> (273)

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<220>

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<222> (279)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (283)

<223> n equals a,t,g, or c

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<222> (297)

<223> n equals a,t,g, or c

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<222> (301)

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<222> (303)

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<222> (310)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (312)

<223> n equals a,t,g, or c

<220>
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<222> (342)
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gtatgggaaa tgccatgttt gtcaaagagc aactcagtc gctggacagg ttcacggagg 120
atgccaaagag gctgtatggc tccgaggcct ttgccactga ctttcaggac tcagctgcag 180
ctaagaagct catcaacgac tacgtgaaga atggaactcg agggactata acctgaacga 240
catactttctc cagctgaagt acacaggcaa tgnccagcna ctnttcaccc tgcctgntca 300
ngncaagatn gnggaagtgg aagccatggt gggttttcaga gncc 344

<210> 623
<211> 316
<212> DNA
<213> Homo sapiens

<220>
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<222> (248)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (286)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (308)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (313)
<223> n equals a,t,g, or c

<400> 623
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cggtctgaag ggtctggctg gtgagccagg ttttaaaggc agccgagggg accctgggcc 120
cccaggacca cctcctgtca tcctgccagg aatgaaagac attaaaggag agaaaggaga 180
tgaagggcct atggggctga aaggatacct gggcgcaaaa ggtatccaag gaatgccagg 240
catcccangg ctgtcaggaa tccctgggct gcctggggagg cccggncaca tcanaggaat 300
caaggganac atngga 316

<210> 624
<211> 445
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (112)
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<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
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<222> (185)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<220>
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<222> (241)
<223> n equals a,t,g, or c

<220>
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<222> (253)
<223> n equals a,t,g, or c

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<222> (266)
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<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (331)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (381)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (426)
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<220>
<221> misc feature
<222> (429)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (438)
<223> n equals a,t,g, or c

<400> 624
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ccagggctat gcgccaagac cgtctttaag gcgctccagg cccctgcctt gnacgaagaa 120
catggtgaag gttggcggct acatccttg ggagtttggg aaacctgaat tntggggacc 180
cccgntncca gccccccagt ggcagttctc cctgctccac tncaagttcc atctgtgaca 240
ngtggccagg ggnccgtgct gctgtgccac ctgacatcaa gttcatcaac ctctttcccc 300
gagaccaagg ncaccatcca gggggtnctg nggggtcggg tttccagttg cgcaatggtg 360
acgtggagtt gcagcaggag ncntggagta acttcacctt cagttcatgg gtcagcaaca 420
agttcnggnc aggtgttnga ggagt 445

<210> 625
<211> 401
<212> DNA
<213> Homo sapiens

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<220>
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tctgctcccg tgactgaact ctgatcttga tagagagtcc cggccatggc agccaaagga 180
ggcaccgtca aagctgcttc agcattcaat gccactgaag atgccagac cctgaggaag 240
gccatgaagg ggcttggcac cgacgaagat gccatcatca gcgtcctcgc ctaccgcaac 300
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atacctcana ctgctgctgg actcacttcg aaaagcccag ggnaattgac aacgtcctcg 180
tcattcttag ccatgacttc tggtcgaccg agatcaatca gctgatcgcc ggggtgaatn 240
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gatgaattcc aaattctgct tgcttgcttt ttaatatgga tatgcttata cacttacact 180
ttatgcacaa aatgtagggt tataataatg ntaacatgga catgatcttc tttataattc 240
tactttgagt gctgtctcca tgtttgatgt atctgagcag gntgctccac aggtagctct 300
agcagggtctg gcaacttann aggtggngag cagagaattc tcttatccaa catcaacatc 360
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cactggccgt cgttttacaa cgtcgtgact gggaaaaccc tggcgttacc caacttaatc 180
gccttgacgc acatccccct ttcgccagct ggcgtaatag cgaagaggcc cgcaccgatc 240
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taagcgcggc ggggtgtggtg gttacgcgca gcgtgaccgc tacacttgcc agcgccctac 360
gcccggctct ttcgtttctt cccttccttt ctgcgccagt tcgccggntt tccccgtnaa 420
gctntaaatn gggggctncc tttaggttc cgattaangn ttacgggac cttngaccca 480
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cgtcgtgact gggaaaaccc tggcgnatcc caacttaatc gccttgagc acatccccct 180
ttcgccagct ggcagtaata gcgaagagc ccgcaccgat cgcccttccc aacagttgct 240
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ggnctattct tttgatttat nagggatttt gncgatttca ggnctatttg ntaaaaaatg 660
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 ccctggcggt acccaactta atcgcccttg agnacatccc cntttcgcca gctggcgtaa 240
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 ggacnncnc tgtancggng cattaancnc ggcggtgtg gnggttacc ncancngac 360
 cgctacactt gccagngccc tagcgcccg tcctttcgt ttcttccct cctttntcgc 420
 cacgttcgcc ggctttcccc gtcaagctnt aaatcgggg ctccctttag ggtccgatt 480
 aagngcttta cgggaccttn gnccccaaaa aaacttgatt aggggngatg gntcacngta 540
 aaggggcat tgcccttgat aaaacggttn ttngccctt ttgacctgg aantccccgt 600
 ttctttaaaa aangggacct tttggttcna actgggaa 638

<210> 631
 <211> 187
 <212> DNA
 <213> Homo sapiens

<400> 631
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<210> 632
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 <212> DNA
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aagcttacgt acgcgtgcat gcgacgtcat agctcttcta tagtgtcacc taaattcaat 180
tcaactggcgcg tcgtttttaca acgtcgtgac tgggaaaacc ctggcggttac ccaacttaat 240
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aaaaaaaaa aaaaaaaaaa gggnggacga tctagaggat ccaaagctta cgtaacntn 180
natgcaa 187

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<212> DNA
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atccaggcca naaagttcac agtcaaagtg ggaggggtat tcttnatgca ggagacccca 180
ggccctggag gctgcnacat acctnaatcc tgtcccangc cggatcctnc tgaagccctt 240

ttt

243

<210> 635

<211> 180

<212> DNA

<213> Homo sapiens

<400> 635

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<210> 636

<211> 747

<212> DNA

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ttacgtacgc gtgcatgcga cgtcatagct cttctatagt gtcacctaaa ttcaattcac 180
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<212> DNA

<213> Homo sapiens

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cgccagctgg cgtaatagcg aagaggcccg caccgatcgc cttccccaac agttgcgcag 240
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tacgcgcagc gtgaccgcta cacttgccaa gcgccctaag cgcccgttcc ttctgctttc 360
ttcctttctt ttttngccac gttcggccgg cttttccccg taaagcttta aatcnggggg 420
gttcctttaa ggggttccga ttaannggtt ttacgggaac ttngaccca aaaaaacttg 480
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<210> 638

<211> 509

<212> DNA

<213> Homo sapiens

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gcgacgtcat agctcttcta tagtgtcacc taaattcaat tcaactggccg tcgttttaca 120
acgtcgtgac tgggaaaacc ctggcggttac ccaacttaat cgccttgag cacaatcccc 180
tttcgccagc tggcgtaata gcgaagaggg ccgcaccgat cgcccttccc aacagttgag 240
cagcctgaat ggcgaaatggg acgcgccctg tagcgggcgca ttaagcgagg cggtgtggt 300
ggttacgcgc agcgtgaccg ntacacttgc cagcgcccta gcgcccgtc ctttcgcttt 360
cttccttctt tctcggcacg gtcgnccggc tttncgcgc aagctntaaa tcgggggggct 420
tccntttagg ggttcgaat taagggttt accgggaacc ntngaacccc caaaaaactt 480
tgaattaggg tngaangggg tcacggtaa 509

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 acgtcgtgac tgggaaaacc ctggcggtac ccaacttaat cgccttgacg cacatcccc 180
 ttctgccagc tggcataata gcgaagaggc ccgnaccgat cgcccttccc aacagttgcg 240
 cagcctgaat ggcaaatggg acncgccctg tagcggcgca ttaagcgcg cggtgtngt 300
 ggttacgcgc agcgtgaccg ctacacttgc agncacctag cgcccgtcc tttcnnttn 360
 ttnccttct tntngcacg tttnacggct ttcccgtaa gctctanac gggggctcct 420
 ttagggcttc attaatgtt tacggacct tanccaaaaa acttgatatg gttatggta 480
 ntgtnttgng ccattgcctt atttccc 507

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gaaggnattc ctctgaaatn cagcagagaa ctgaatcttt gcctggncaa gcagctggga 180

563

aggatgggac gttactttgt gctgaactta caatatttca aaaggggttc ttacttcttn 240
atcttggtt gagaatttcg tgggtggtgc ttaggaaagg ggaaggagga agtttttaca 300
accattccca ggaaggntta ggcccagggn aaagganggt ttaagntggt tgtncncgaa 360
attttttagg gngggttgng attgggcaan tnngtnggct ttggttgggg ggttcccctt 420
tttaanngan ttnggggntt nggggngttt tttttgggnn ggnaaatttt tttaaggnc 480
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acacatgacc ccagccctct acagcggtaa ggtgaggggac ccacattncc cctgccctct 180
gagacttngg gggacgttgc cccctgana tgcagnnngg gcctgaatat gtgaaccagc 240
cagatgttcg gccccagccc ccttcgcccc gaagatgngc tngnctgctg cccgacctnc 300
ttggtgccac tctggnaagn ggccaagaat ctnttcccca gggaagaatt gggtcgtcaa 360
aagnggtttt tgcnttttgg gggttccgtt gagaancccg agtangttta caacccaag 420
ggaagaanct tcccctnaag cccaacctt cttccttgct taagccagcc tttgacaacc 480
tctaataatt ggancaagan ccaacaaaac cggggggtc 519
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567

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<212> DNA

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 tatttgacaa agatggtgat ggaactataa caacaaagga attgggaact gtaatgagat 180
 ctcttgggca gaatcccaca gaagcagagt tacaggacat gattaatgaa gtagatgctg 240
 atggtaatgg cacaattgac ttccctgaat ttctgacaat gatggcaaga aaaatgaaag 300
 acacagacag tgaagaagaa attagagaag cattccgtgt gtttgataag gatggcaatg 360
 gctatattag tgctgcagaa cttcgccatg tgatgacaaa ctttggaaga gaagttaaca 420
 gatgaagaag tttgatgaaa tgatcaggga agcagatatt gatggtgatg gtcaagtaaa 480
 ctatgaagag tttgtaccaa atgatgacag caaaagtgaa agaccttttn ccagaatggg 540
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<211> 112

<212> DNA

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<211> 514

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gcgcgccagc acagaaacag aggagagtcc cagagcagga ggcccctggc ccagcgggcc 180
ctccacaca caccacaca ctgcgccgcc cactgtcctg ggcgccctgg aagccggcgg 240
gccaaagccga cttgctgttt tgttctgttg tttccctcc ctgggttcaa aaatgctgcc 300
tgctgtctgt ctctccatct tgtttggttg gttaaactga tccaaaanaa aatttggtcc 360
gtgattggaa aaaccaccca acttggaanc nactcttttt cctgggtcct tctctccagg 420
atcccccccg gcctacaagc cgtnggttaa cctacccaac agngcncccg gnccttgaa 480
ctgcngctaa gcccttccaa ttggccattg gtcc 514

<210> 647
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 cctgctggac ggctccgagc ggctgggtga gcagaacttc cacaaggccc ggcgcttcgt 180
 ggagcaggtg gcgcggcggc tgacgctggc ccggagggac gacgaccctc tcaacgcacg 240
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 caacctcacg gccatccacg aggcgctgga gaccacgcaa tacctgaact ccttctcgca 360
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 ccggaggcac gcagagctgc cttcgtggtc ctcacggacg gcgtcacggg caacgacagn 480
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aagaaccgct gggaggacnc tggtaagcag ctctacaacg tggaggccac atcctatncc 120
ctcttngccc tactgcagct aaaagncttt gactttgtnc ctcccgtcgt ncnttngctc 180
aatgnacaga gatnctacgg tgggtggntat ggctctaccc aggccacett catggtgttc 240
caagncttag ctcaatanca gaaggacggc cctgaccacc aggcactgaa ccttgangtg 300
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<210> 649
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<222> (509)

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<400> 649

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acgcctatta caacctggag gaaagctgta cccggttcta ccatccgga aaggaggatg 180
gaaagctgaa caagctctgc cgtgatgaac tgtgccgctg tgctgaggag aattgcttca 240
tacaaaagtc ggatgacaag gtcaccctgg aagaacggct ggacaaggcc tgtgagccag 300
gagtggacta tgtgtacaag acccgactgg caagggtcaa gctgtccaat gactttgacc 360
gagtacatca tggccattga gcagaccatc aagtcaggct cggatgagggt gcagggttga 420
cagcagcgca cgttcatcag ccccatcaag tgcagagaag ccctgaagct tgaggagaag 480
aaacactact tcatgtgggg nctcttctnc caattctggg gagagaagcc caaccttagc 540
tacatcatcg ggaaggacac ttgggtggag cactg 575
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<210> 650

<211> 277

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (186)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (243)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (256)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (265)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (267)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (269)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (276)

<223> n equals a,t,g, or c

<400> 650

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tcgacccacg cgtccggcat tgtctatcat tgcactggag atccaagcac agaagtgtgt 60
agagttaaca gaaggaatag aatgtcttca gacacattcc aagataaatg gcagagattt 120
gaccttctgg caagaacttg tatccaagtg tttaactgaa tattcatcta agcaaagtgg 180
ttccanacca aatgttccag aagtttgaaa atggatttgt tcctggacgt actgcacggc 240
aanctgaagc acaggntact aacngntna acccanc 277
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<210> 651

<211> 357

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (89)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (97)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (100)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (106)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (175)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (221)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (299)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (324)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<400> 651
ggcacaggnt ccngggtgga gctggctgag tcgcgcgctc tgctccaccc ggggggggctg 60
ttttttctgg gcctggctcg cggcgnacng agatggnagn gcagtnggac gaggccgtga 120
agtaatacac cctaggagga gattcagaag cacaaccaca gcaagagcac ctgggctgat 180
cctgncacca caaggtgtac gaatttgacc aaatttctgg nagaggcatc cctgggtgggg 240
gaggaagttt taaggggaac aagcttgagg gtgacgctac ttgaggaant tttgagggnt 300
gttcggggca cttttaccag ntgncccaag ggaaaattgt tcccaaaaac atttnca 357

576

<210> 652
<211> 190
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (138)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (180)
<223> n equals a,t,g, or c

<400> 652
ggacgctact tcccctatca tagaagagct tatcaccttt catgatcacg ccctcataat 60
cattttcctt atctgcttcc tagtcctgta tgcctttttc ctaacactca caacaaaact 120
aactaatact aacatctnag acgctnanga aatagaaacc gtctgaacta tnctgcccgn 180
catcatccta 190

<210> 653
<211> 603
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (415)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (600)
<223> n equals a,t,g, or c

577

<400> 653

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gcttcgaccc cgccggagga ggagacccca ttctatacca acacctattc tgatttttcg 60
gtcacccctga agtttatatt cttatcctac caggcttcgg aataatctcc catattgtaa 120
cttactactc cggaaaaaaa gaaccatttg gatacatagg tatggctga gctatgatat 180
caattggctt cctagggttt atcgtgtgag cacaccatat atttacagta ggaatagacg 240
tagacacacg agcatatttc acctccgcta ccataatcat cgctatcccc accggcgta 300
aagtatttag ctgactcgcc aactccacg gaagcaatat gaaatgatct gctgcagtgc 360
tctgagccct aggattcatc tttcttttca ccgtagggtg cctgactggc attgnattag 420
caaactcatc actagacatc gtactacacg acacgtacta ccgttgtagc ccacttccac 480
tatgtcctat caataggagc tggatttgcc atcataggaa ggcttcattc actgatttcc 540
ctattctcag gctacaccct agaccaaacc tacgccaaaa atcatttcac tatcataatn 600
cac 603
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<210> 654

<211> 356

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (198)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (270)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (302)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (328)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (340)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<400> 654

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ggtttttttc ttgcaggat ttttctgagc cttttaccac tccagcctag cccctacccc 60
ccaattagga gggcactggc cccaacagg catcaccccg ctaaattccc tagaagtccc 120
```

```

actcctaaac acatccgtat tactcgcatc aggagtatca atcacctgag ctcaccatag 180
tctaatagaa aacaaccnaa accaaataat tcaagcactg cttattacaa ttttactggg 240
tctctatttt accctcctac aaagcctcan agtacttcga gtctcccttc accatttccg 300
anggcatacta cggctcaaca ttttttgnag cccaggcttn cacgganttt cacgtc 356

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<210> 655

<211> 682

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (660)

<223> n equals a,t,g, or c

<400> 655

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gcgcaagtag gtctacaaga cgctacttcc cctatcatag aagagcttat cacctttcat 60
gatcacgccc tcataatcat tttccttata tgcttcctag tcctgtatgc ccttttcccta 120
acactcacia caaaactaac taatactaac atctcagacg ctcaggaaat agaaaccgtc 180
tgaactatcc tgcccgccat catcctagtc ctcacgcgcc tcccatccct acgcatacctt 240
tacataacag acgaggtcaa cgatccctcc cttaccatca aatcaattgg ccaccaatgg 300
tactgaacct acgagtagac cgactacggc ggactaatct tcaactccta cataacttccc 360
ccattattcc tagaaccagg cgacctgcga ctccttgacg ttgacaatcg agtagtactc 420
ccgattgaag cccccattcg tataataatt acatcacaag acgtcttgca ctcatgagct 480
gtccccacat taggcttaaa aacagatgca attcccgac gtctaaacca aaccactttc 540
accgctacac gaccgggggt atactacggt caatgctctg aaatctgtgg agcaaaccac 600
agtttcatgc ccacggcct agaattaatt cccctaaaaa tctttgaaat aaggggcccg 660
atttacccta tagcaccct ct 682

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<210> 656

<211> 520

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (429)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (442)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

579

<222> (483)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c

<400> 656
gagaagagct tatcaccttt catgatcacg ccctcataat cattttcctt atctgcttcc 60
tagtcctgta tgcccttttc ctaacactca caacaaaact aactaatact aacatctcag 120
acgctcagga aatagaaacc gtctgaacta tcctgcccgc catcatacta gtcctcatcg 180
ccctcccatc cctacgcac ctttacataa cagacgaggt caacgatccc tcccttacca 240
tcaaataaat tggcaccaat ggtactgaac ctacgagtag accgactacg gcggactaat 300
cttcaactcc tacatacttc ccccatatt cctagaacca ggcgacctgc gactccttga 360
cggtgacaat cgagtagtac tcccgaattga agccccattc gtataataat tacatcacia 420
gacgcttgna ctcaagagct gnccacant aggcttaaaa acaggatgca atttccgggc 480
ggntnaaaca aaacaatttt accggtacac gaacgggggg 520

<210> 657
<211> 353
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (227)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c

<400> 657
gcactttctg ccaaagaaat ctctcctttt gcttctagca ccgactagat ttccttcagc 60
tgatgattga ctcccagaat tcgaaagaaa ctgagtccca caaagctctg tctgatctgg 120
agctcgcagc ccagtcaata atcttcattt ttgctggcta tgaaaccacc agcagtgttc 180
tttccttcac tttatatgaa ctggccactc accctgatgt ccagcnaaaa ctgcaaaagg 240
gagattgatg cagttttgcc caataaggca ccacctacct atgatgccgt ggtacagatg 300
gattaccttg acatgggtggg gaatgaaacc tcaaattatn cccgttggtg tta 353

<210> 658
<211> 362
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (203)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (310)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (333)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (338)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c

<400> 658
ggcanaggcc accaccatcc tgcattgccc actttacttg gccttctcct ggctctaaact 60
caggcagcca agacccctcc cacttccttc tttggcctcc ctctcctcag gtatgaaaat 120
gaagctggcc ctgcgcccag gcgtttgaag gctgacatca acggcttgcc cccagtcctg 180
ggatgagctg accctggcca ggnctgacct ggagntgcag atcgagggcc tgaatgaggc 240

agctagcctt acctgaagtg gnaccacgaa ggagggagat ggaaggagtt tcagcagcca 300
gttggccggn caagttcaat nttggagatg ggncggancc ccgggtgtgg gacctgaccc 360
gn 362

<210> 659
<211> 447
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (147)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (168)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (175)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (202)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (204)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (247)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (286)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (446)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (447)
<223> n equals a,t,g, or c

<400> 659
gcttctnccg tccttctagg atctccgcct ggntcggccc gcctgcntcc actcctgcct 60
ctaccatgtc catcaaggtg acccagaagt cctacaaggn gtccacctct agcccccggt 120

ccttcagcag ccgctcctac acgaatnggc ccggttcccg catcaacncc tegancttct 180
cccgaatagg cagcagcaac tntngcagtg gcctggggcg cggctatngt ggggccagcn 240
gcatggnagg catcacgcga gttacgggtca accagagcct gctganccccc cttntcctgg 300
aggtggaccc caacatccag gccgtgcgca ccagagagaa ggagcagatc aanaccctca 360
acaacaagtt tgcctcttca tagacaaggt aggttcctgg agcagcagaa caagatgttg 420
gaaaccaagt agagctcctt gagcnnn 447

<210> 660

<211> 295

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (70)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (73)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (82)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (95)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (121)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (131)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (144)
<223> n equals a,t,g, or c

<220>
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<222> (168)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (229)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (257)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (270)
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (284)

<223> n equals a,t,g, or c

<400> 660

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ggnacgagcn aaggcctgca ccattctcct ccgggggggct agcaaagaaa ttctntcgga 60
agtagaacgn gancctccag gntgcnatgc aagtntgtcg caatgttctc ctgggaccct 120
nagctgggtgc naggggggtgg ggcntccaaa atggctgtgg cccatgcntt ganagaaaaa 180
tccanggccca tggactgggtg tgggaacaat ggccatacag ggctgttgnc cagggcccta 240
naggttcatt cctcgnacc ctggatccan aaactgtggg gggncagcca ccatt      295
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<210> 661

<211> 212

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (207)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

<400> 661

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gttggtgtgc tgggcctgga cctctggcag gtcaagtctg gcaccatctt tgacaacttc 60
ctcatcacca acgatgagga atacgctgag gatgttgga acgagacgtg gggcgtaaca 120
aaggcagcag agaaacaaat gaaggacaaa caggacgagg agcagaggct taaggaggag 180
gaagaagaca agaaacgcaa agaggangan ga      212
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<210> 662

<211> 130

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (123)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (129)

<223> n equals a,t,g, or c

<400> 662

aaaatacatt ganatacatn atgaaggcca ctatnctcct ccttctgntt gcacaacttt 60
cctgggctgg accntttcat cagacaggct tattagactc tatgctagaa catgaagctt 120
atnggatcng 130

<210> 663

<211> 232

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (138)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (139)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (195)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (205)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (216)
<223> n equals a,t,g, or c

<400> 663
gnetcatnnn gactgttctg ncccgattgt tgctgctggt gttggtgaat ttgaagctgg 60
tatctccaag aatgggcaga cccgagagca tgcccttctg gcttacacac tgggtgtgaa 120
acaactaatt gtcggtgnaa acaaaatgga ttccactgag ccaccctaca gccagaagag 180
atatgaggaa attgntaagg aagtnagcac ttaccnttaa gaaaaaactg gg 232

<210> 664
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (292)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<400> 664
agcggagacc cgcaagcgca agggngctgaa agaaggcatc cctgccctgg acaacttcct 60
ggacaaattg taggtggccc ctgcagcgcc tgccgccccg gggactcgca gcacccacag 120
caccacgtcc cgaattctca gacgacacct ggagactgtc ccgacactcc cctgagaggt 180
ttctggggcc cgctgcggtc acgagggggg gcccggttac ccaattcgtc ctatagtgat 240
natttacaat tcactggncg tcgttttaca agtcgtgtnt gagttttttt tntntt 296

<210> 665
<211> 376
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (282)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (336)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (342)

<223> n equals a,t,g, or c

<400> 665

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gggtcgaccc acgcgtccgg tttgccgcca gaacacaggt gtcgtgaaaa ctaccacctaa 60
aagccaaaat gggaaaggaa aagactcata tcaacattgt cgtcattgga cacgtagatt 120
cgggcaagtc caccactact ggccatctga tctataaatg cggtggtatc gacaaaagaa 180
ccattgaaaa atttgagaag gaggtgctg agatgggaaa gggctccttc aagtatgcct 240
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cagggcccat cgccagcgct ggtcctgccg ntgctgtggt ganagagctg cgttgccggt 240
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cactttgttt tntccctgg cttcatcnac tacatcagtg gcacccctca tgctctgatt 240
gtgcgtcget acctctccct gctggacacg gccgtggagc tgganctccc aagataccgg 300
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ctgactnatt aataatggct accattctta acangttaat ccaagtncag cncgtttaag 360
ggngnaaagg antcaagggt nggcgggttc atntncaagn tgcgtgtggn agtagtaatt 420
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cggggagcga ggctggtttc ctgtgacagc nntgngagtt catttccaac ccagaggtcc 240
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<400> 676

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gctgcagaag gacaagcagg tctaccgggc caccgaccgc ctgctgctgc tgggtgctgg 120
agaatctggt aaaagcacca ttgtgaagca gatgaggatc ctgcatgtta atgggtttaa 180
tggagacagt gagaaggcaa ccaaagtgca gganatcaaa aacaacctga aagaggcgat 240
tgaaaccatt gtggccgccca tgagcaacct ggtgcccccc gtggagctgg ccaaccccgga 300
aaaccagttc agagtggact acatcctgag tgtgatgaac gtgcctgact ttnacttccc 360
tcccgaattc tatgagcatg ccaaggctct gtggggangat gaangagtgc gtnccctgcta 420
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<210> 677

<211> 550

<212> DNA

<213> Homo sapiens

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<400> 677
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 gggagcgcaa cgtgctcatc tttgacctgg gcggggggcac cttcgacgtg tccatcctga 180
 cgatcgacga cggcatcttc gaggtgaagg ccacggncgg ggacaccacac ctgggtgggg 240
 aggactttga caacaggctg gtgaaccact tcgtggagga gttcaagaga aaacacaaga 300
 aggacatcag ccagaacaag cgagccgtga ggcggctgcg caccgctgcg agagggccaa 360
 gaggaccctg tcgtccagca cccaggccag cctggagatc gacttccttg ttttgagggc 420
 atcgacttnt acacgttcat caccagggcg aaggttcgaa ggagctgtgc ttccgacctt 480
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<210> 678
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<221> misc feature

<222> (134)

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<220>

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<222> (295)

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<220>

<221> misc feature

<222> (330)

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<220>

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<220>

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<222> (344)

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<222> (376)

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<220>

<221> misc feature

<222> (385)

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<220>

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<222> (401)

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<220>
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atggaggata tggactacac tggttacaac aactactatg gatatggtga ttatagcaac 180
cagcagagtg gttatgggaa ggtatccagg cgaggtggtc atcaaatag ctacaaacca 240
tacttaaatt attccatttg caacttatcc ccaacagggt gtgaagcata ttttncatt 300
tgaagggtcc tttgaggggg gctccgccc ngncttaatt ggcnttccaa ctaaattttt 360
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ccntaaagga tttnn 435

<210> 679
<211> 390
<212> DNA
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<222> (217)
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<222> (287)
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<220>
<221> misc feature
<222> (330)
<223> n equals a,t,g, or c

610

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<222> (333)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (371)
<223> n equals a,t,g, or c

<220>
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<222> (390)
<223> n equals a,t,g, or c

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tccctggaag ctctgcatg gcagctctga cagtgcact gatgggtgctg aactccccac 120
tggctttggc tggggacacc cgaccacgtt tcttgagca ggtnaaacat gaatgtcatt 180
tcttcaacgg gacggaacgg gtgcggttcc tggacanata cttctatcac caagaagaat 240
acgtgcgctt cgacagcgac gtggggggaat accgggcggt gacgganctg gggcggccta 300
actccgaata ctggaacagc cagaaagacn ccngggacag aagcgggccg cgggtggacac 360
ctactgcaga nacactacgg ggttgggtgn 390

<210> 680
<211> 343
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>
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<222> (3)
<223> n equals a,t,g, or c

<220>
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<222> (8)
<223> n equals a,t,g, or c

<220>
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<222> (11)
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<220>
<221> misc feature

<222> (18)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (121)
<223> n equals a,t,g, or c

<220>
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<220>
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<222> (272)

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<220>

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<222> (278)

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<221> misc feature

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<221> misc feature

<222> (331)

<223> n equals a,t,g, or c

<400> 680

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cagattatgc cattgccagg cgcatagtag atttgcattc aagaattgag gaatcaattg 120
nnaatatcta tncctcgat gatatcagaa gatatctnctn ctatgcaaga aagtntaaac 180
ccaagaattc caaagantca gnggacttca ttgtggagca atntaaacat ctccgcccgn 240
aagatgggtt ctggagtagc ccagtcttca tngagggnntn cagttgcggc cncattgagg 300
gccttggtatc cgtctctctt ggaagccaat ngctccgggt gcc 343
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<210> 681

<211> 523

<212> DNA

<213> Homo sapiens

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<220>
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<222> (503)
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<220>
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<400> 681
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gacccacgcg tncgccaat tttaccaatc tatcacccta tagaagagct aatgttagta 120
taagtaacat gaaaacattc ncctccgcat aagcctgcgt cagattaaaa cactgaactg 180
acaattaaca gcccaatata tacaatcaac caacaagtca ttattaccct cactgtcaac 240
ccaacacagg catgctcata aggaaagggt aaaaaaagta aaaggaaactc ggcaaactct 300
accccgccctg tttacaaaaa acatcacctc tagcatcacc agtattagag gcaccgcctg 360
cccagtgaca catgtttaac ggncgcggta ccctaaccgt gcaaaggtag cataatcact 420
tggtccttaa ttagggacct gnatgaatgg ctccacgagg gtcagctggc tcttactttt 480
aaccagnгаа attgacctgn cgngaagagg cggnatgaca cag 523

<210> 682

<211> 713

<212> DNA

<213> Homo sapiens

<220>

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<222> (423)

<223> n equals a,t,g, or c

<220>

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<222> (583)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (595)

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<220>

<221> misc feature

<222> (605)

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<220>

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<222> (626)

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<222> (640)

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<222> (646)

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<400> 682

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aaatcttacc ccgcctgttt accaaaaaca tcacctctag catcaccagt attagaggca 120
ccgcctgccc agtgacacat gtttaacggc cgcggtaccc taaccgtgca aaggtagcat 180
aatcacttgt tccttaaata gggacctgta tgaatggctc cacgaggggt cagctgtctc 240
ttacttttaa ccagtgaat tgacctgccc gtgaagaggc gggcatgaca cagcaagacg 300
agaagaccct atggagcttt aattttattaa tgcaaacagt acctaacaaa cccacaggtc 360
ctaaactacc aaacctgcat taaaaatttc gggtggggcg acctcggagc agaaccacaac 420
ctncgagcag tacatgctaa gacttcacca gtcaaagcga actactatac tcaattgatc 480
caataacttg accaacggaa caagttaccc tagggataac agcgcaatcc tattctagag 540
tccatatcaa caatagggtt tacgaacctc gatgtttgat cangacattc ccatngtgca 600
gccnctatt taaaagggtc gttggntcac gantaaaggn cctacntgaa ctgagttcan 660
aaccggagta aattccaagg cgggttttta tctaccttaa aattcccccc tgg 713
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<210> 683

<211> 289

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

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<222> (73)

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<222> (252)
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<220>
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<222> (287)
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<400> 683
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agtggatccc ccnggctgcn tgaattcggc acgagcggca cgaggccctg cggggtgtac 120
accccccggtt gcggtctggg cctgctctgc taccgcggcc gaggggtgga gaagccctg 180
cacacactga tgcacgggca aggcgtgtgc atggagctgg cgganatcga ggccatncan 240
gaaagcctgc anccctctga caaggacgag ggtgaccacc ccaacanca 289

<210> 684
<211> 464
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c

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agaactcacc atggaatttg ggctgagctg gctttttctt gtggctattt taaaaggtgt 120

ccagtgtgag gtgcaattgg tggagtctgg gggaggcttg gtacagcctg ggggggtccct 180
gagactctcc tgtacagtct ctggattcac ctttcgcaac tatgccatga gttgggtccg 240
ccaggggtcca gggaaggggc tggaatgggt ctcagcaatt gacggtagtg gttataacac 300
atactacgag aggtccctgc agggccgctt tagtgtctcc agagacaatt ccnagaacac 360
actatatctg caaatgaaca gcctgggagc cgaggacacg gccatctatt attgtgcgaa 420
gacagaacgt atgggtactg gctggtacgg acgaaatgac tact 464

<210> 685
<211> 545
<212> DNA
<213> Homo sapiens

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<222> (442)
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<222> (505)
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<222> (509)
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<220>
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aggtagccggt ccggaattcc cgggtcgacc cacgcgctccg gaccgacacc cctggagaga 120
cggcctccat ctctgcagg tctagtcaga ccctcctgca tgtcaatgga cacaactatt 180
tggattggtg catgcagaag ccagggcagc ctccacagct cgtgggtctat aggggttcca 240
atcgggcctc cggggtccct gacaggttca gtggcggttg atcaggcaca gattttacac 300
ttagaatcac cacggtggag gctgangatg ttggcggtta ttactgcatg caagctctac 360
aaagtccgta cacttttggt caggggacca agctggagat caaacgaact gtgggctgca 420
ccatctgnct tcatcttnc gncatctgat gaacanntga aatctggaac tgcctctggt 480
gggggcctgc tgaataactt ctatnccana gagggccaaa gtaccagtgg aaaggnggga 540
taacg 545

<210> 686
<211> 496
<212> DNA
<213> Homo sapiens

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<222> (417)

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<220>

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<220>

<221> misc feature

<222> (472)

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<220>

<221> misc feature

<222> (481)

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<222> (488)

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<400> 686

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gcctggattc cacagcttcg cgccgtgtac tgtcgccccca tccctgcgcg cccagcctgc 180
caagcagcgt gccccggttg caggcgtcat gcagcgggcg cgaccacgc tctggggccgc 240
tgcgctgact ctgctggtgc tgctccgcgg gccgcgggtg gcgcgggctg gcgcgagctc 300
gggggggcttg ggtcccgtgg tgcgctgcga accgtgcgac gcgcgtgcac tggcccantg 360
cgcgcccttc gcccgccgtg tgcgccggaa cttggtgcgc caagccgggc ttgcggntgc 420
tgcctgacgt gcgcactgag cgaagggcc a gccgtgcggn atctacaccg ancgtgtgg 480
nttccggnct tcgttg                                     496
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<210> 687

<211> 476

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (7)

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<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<400> 687

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tcacacgact gcagctggag acagagatcg aggctctcaa ggaggagctg ctcttcatga 180
agaagaacca cgaagaggaa gtaaaaggcc tacaagccca gattgccagc tctgggttga 240
ccgtggaggt agatgcccc aaatctcagg acctcgccaa gatcatggca gacatccggg 300
cccaatatga cgagctggct cggaagaacc gagaggagct agacaagtac tggctctcagc 360
agattgagga gagcaccaca gtggtcacca cacagtctgc tgaggttgga gctgctgaga 420
cgacgctcac agagctgaga cgtacagtcc agtccttga gatcgacctg ggactt 476

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<210> 688

<211> 483

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<400> 688

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aactagtgga tccccgggc tgcaggaatt cggcacgagc aggttcccgc ccggaagaag 120
cgaccaaagc gcctgaggac cggcaacatg gtgcggtcgg ggaataaggc agctgttgtg 180
ctgtgtatgg acgtgggctt taccatgagt aactccattc ctggtataga atccccattt 240
gaacaagcaa agaaggtgat aaccatgttt gtacagcgac aggtgtttgc tgagaacaag 300
gatgagattg ctttagtcct gtttggtaca gatggcactg acaatcccct ttctggtggg 360
gatcagtatc agaacatcac agtgcacaga catctgatgc taccagattt tgatttgctg 420
gaggacattg aaaagcaaaa tccaaccagg ttctcaacag gctgacttcc tgggatgcac 480
taa 483

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<210> 689

<211> 339

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (109)

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<220>

<221> misc feature

<222> (135)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (155)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (236)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (260)

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<222> (280)

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<222> (289)

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<222> (337)

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<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<400> 689

aggcaggagg aagccgatcg aaaactcaga gaggaggaag agaagaggag gctaaaggaa 60
gagattgaaa ggcgaggagc agaagctgct gagaaacgcc agaagatgnc agaagatggc 120
ttgtcagatg acagnaaacc attcaagtgt ttcantccta aaaggttcat ctcttcaaga 180

622

tagaagagcg agcagat ttt tgattaagtc tgtgcagaaa agcagtgggtg ttcaantcga 240
 cccttcaagc agcattagtn ttccaagttt gacagcagan tggagcatnt taccatggca 300
 tttgagggga ccaaaagcag ccaaaacctt aaaaaanna 339

<210> 690

<211> 594

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (473)

<223> n equals a,t,g, or c

<400> 690

gntgctttct ccaccagaag ggcacacttt catctaattt ggggtatcac tgagctgaag 60
 acaaagagaa gggggagaaa acctagcaga ccacatgtg ctatgggaag tgtgcacgat 120
 gcatcggaaca ttctctgggtg gggctcgccc tcctgtgcat cgcggtaat attttgcttt 180
 actttcccaa tggggaaaca aagtatgcct ccgaaaacca cctcagccgc ttcgtgtgggt 240
 tcttttctgg catcgtagga ggtggcctgc tgatgctcct gccagcattt gtcttcattg 300
 ggctggaaca ggatgactgc tgtggctgct gtggccatga aaactgtggc aaacgatgtg 360
 cgatgctttc ttctgtattg gctgctctca ttggaattgc aggatctggc tactgtgtca 420
 ttgtggcagc ctttggctta gcagaaggac cactatgtct tgattccctc ggncagtggg 480
 actacacctt tgccagcacc gagggccaag taccttctgg ataccttcac atggtccgag 540
 tgcactgaac ccaacacatt ggggaatgga atggatctct ggtttctatc ctct 594

<210> 691

<211> 538

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

623

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<400> 691

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ganganacna accctcacta aagggaaaca aagctggagc tccaccgcgg tgcgnccgct 60
ctagaactag tggatccccc gggctgcagg aattcggcac gagcgcatga ctttgtcttc 120
tccgcacgac tggtacagag gtctccagag ctttctctct cctgtgcaaa atggcaactc 180
ttaaggaaaa actcattgca ccagttgcgg aagaagaggc aacagttcca aacaataaga 240
tcactgtagt ggggtgttga caagttggta tggcgtgtgc tatcagcatt ctgggaaagt 300
ctctggctga tgaacttgct cttgtggatg ttttggaaga taagcttaaa ggagaaatga 360
tggatctgca gcatgggagc ttatttcttc agacacctaa aattttggca gataaagatt 420
attctgtgac cgccaattct aagattgtag tggtaactgc aggagtccgt cagcaagaag 480
gggagagtcg gctcaatctg gtgcagagaa atgttaatgt cttcaaattc attattcc 538
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<210> 692

<211> 201

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (125)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (143)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (161)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (165)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (183)

<223> n equals a,t,g, or c

<400> 692

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gctcattgcc acgcgcccc gacgaccgcc cgacgtgcat tcccgattcc ttttggttcc 60
aagtccaata tggcaactct aaaggatcag ctgatttata atcttctaaa ggaagaacag 120
accnccaga ataagattac agntgttggg gttggtgctg ntggnatggc ctgtgccatc 180
aanatcttaa tgaaggactt g                                     201
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<210> 693
<211> 589
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (271)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (377)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (424)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (437)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (466)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (491)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (551)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (571)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (572)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (576)
<223> n equals a,t,g, or c

<400> 693
nncaaaaagt acctaggtga cantatagaa ggtacgcctg caggtaccgg tccggaattc 60
ccgggggttgt taacttggtt attgcagctt ataatgggta caaataaagc aatagcatca 120
caaatttcac aaataaagca tttttttcac tgcattctag ttgtgggttg tccaaactca 180
tcaatgtatc ttatcatgtc tggatcgatc ctgcattaat gaacggccaa cgcgcgggga 240
gaggcggttt gcgtattggc tggcgtaata ncgaaaagcc cgcaccgatc gcccttccca 300
acagttgcgc ancctgaatg gcgaatggga cgcgccctgt ancggcgcat taancgcggc 360
gggtgtggtg gttaccncaa cgtgaccgct acaacttgcca ncgccctaac gcccgctcct 420
ttcnctttct tcccctncct ttctcccca cgttcgcgcg gggttncccc gtcaaactct 480
aaatccgggg ntccccttta agggttccca atttaattgc ttaacggcac ctccaacccc 540
aaaaaaactt naataagggg tgaatggttc nnctanttgg gccacccc 589

<210> 694
<211> 386
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (135)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (149)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (202)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (204)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (244)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (326)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c

627

<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

<400> 694
ggcaaagcat ggggcagcga gtgtgagaaa tgccctctgc ctggcacaga ggccttcana 60
gagatctgcc ctgccggcca cggctacacc tacgcgagct ccgacatccg cctgtccatg 120
aggaaaagccg aggangaaga actggcaang cccccaaggg agcaagggca gangagcagc 180
tgggcactgc ccgggccaac ananaagcag cccctccggg ttcgtcacgg acacctggct 240
tgangccggg accatccctg acaagggtga ctctcaagct ggccagggtca cgaccagtgt 300
cactcatgca cctgcctggg tcacanggaa atgccacaan cccacccaat gcctgaacag 360
ggaattgcnn aaaattccgg aaaaaa 386

<210> 695
<211> 475
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (231)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (278)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (459)
<223> n equals a,t,g, or c

<220>
<221> misc feature

628

<222> (463)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (465)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (466)
 <223> n equals a,t,g, or c

<400> 695
 gggttcacagc atatattggt ggattcttgt ccatagtgca tctgctttaa gaattaacga 60
 aagcagtgtc aagacagtaa ggattcaaac catttgccaa aaatgagtct aagtgcattt 120
 actctcttcc tggcattgat tgggtggtacc agtggccagt actatgatta tgattttccc 180
 ctatcaattt atgggcaatc atcaccaaac tgtgcaccag aatgtaactg ncctgaaagc 240
 tacccaagtg ccatgtactg tgatgagctg aaattganaa gtgtaccaat ggtgcctcct 300
 ggaatcaagt atctttacct taggaataac cagattgacc atattgatga aaaggccttt 360
 gagaatgtaa ctgatctgca gtggctcatt ctagatcaca accttctaga aaactccaag 420
 atnaaaggga gagttttctc taaattgaaa caactgaana agtnntata accac 475

<210> 696
 <211> 444
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (402)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (410)
 <223> n equals a,t,g, or c

<400> 696
 tatcaagtgt actccaaaat ccaggcaaca aacacatggc tgtttctaag tagctgtaac 60
 ggaaatgaaa cttctctttg ggactgcaag aactggcaat ggggtggact tacctgtgat 120
 cactatgaag aagccaaaat tacctgctca gccacaggg aaccagact gggtggaggg 180
 gacattccct gttctggacg tgttgaagtg aagcatggtg acacgtgggg ctccatctgt 240
 gattcagact tctctctgga agctgccagc gttctatgca gggaattaca gtgtggcaca 300
 gttgtctcta tcctgggggg agctcacttt ggagaggga tggacagatc tgggctgaag 360
 aattccagtg ttgagggaca tgaatcccca tctttcatct tnccagtagn aaccccgccc 420
 aaaaggaact tgtagccaca gcaa 444

<210> 697
 <211> 411
 <212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (104)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (305)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (391)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (410)

<223> n equals a,t,g, or c

<400> 697

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aacatggcgg gtgtggagga ggtagcggcc tccgggagcc acctgaatgg cgacctggat 60
ccagacgcaca gggaagaagg agctgcctct acggctgagg aaanagccaa gaaaaaaga 120
cgaaagaaga agaagagcaa agggccttct gcaggtaaag agagttttat gttttcccag 180
tccccctccgg gaacggctga actgtttggc tcaggcccgt tgagggggcc gggaccgggg 240
ccccagagcc ccgactagac tgattcttgg gcctgacagg gtggcaaagc cgggctatag 300
atcanggtgc acctgagctt tctctgatgt atgccangc agatctccag gtattcagag 360
cacctgcttn cccancctgt tagtcttagt naccacaacc tcctgtgcan a 411
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<210> 698

<211> 135

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<400> 698
ggcgtgggtt tccgggaggg nacctgnggg gccagaccc agcgcacccg gtgnaggggtg 60
ccctncaact ggaagatgna ttctgagccg atttcaagta caaagtttta gaacttgggg 120
tgcggtgat taggg 135

<210> 699
<211> 434
<212> DNA
<213> Homo sapiens

<220>
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<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

<220>

<221> misc feature
 <222> (56)
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<220>
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 <222> (61)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (321)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (368)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (369)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (391)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (394)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (427)
 <223> n equals a,t,g, or c

<400> 699
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 ngcacagttt tctctcttgg agcatgcatg gaaggcctga atattttgct taacagactg 120
 ttggggattt cattatatgc agagcagcct gcaaaaggag aggtgtggag cgaagatgtc 180
 cgaaaactgg ctgttgttca tgaatctgaa ggattgttgg ggtacattta ctgtgatttt 240
 tttcagcgag cagacaaacc acatcaggat tgccatttca ctatccgtgg aggcagacta 300
 aaaggaagat gggagactat ncaactccca gttgtaagtt cttatgctgg aatcttcccc 360
 gttcccgnna gggagttctc caactttggc naangcctgg gcatgatggg aaaacctttc 420
 ccagganggg ggac 434

<210> 700
 <211> 435

632

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (118)
<223> n equals a,t,g, or c

<400> 700
gccgagcgca cgccttgccg ccgccccgca gaaatgcttc ggttaccac agtctttcgc 60
cagatgagac cgggtgccag ggtactggct cctcatctca ctcgggctta tgccaaanat 120
gtaaaatttg gtgcagatgc ccgagcctta atgcttcaag gtgtagacct ttagccgat 180
gctgtggccg ttacaatggg gccaaaggga agaacagtga ttattgagca gagttgggga 240
agtcccaaag taacaaaaga tgggtgtgact gttgcaaagt caattgactt aaaagataaa 300
tacaagaaca ttggagctaa acttgttcaa gatgttgcca ataacacaaa tgaagaagct 360
ggggatggca ctaccactgc tactgtactg gcacgctcta tagccaagga aggcttcgag 420
aagattagca aaggt 435

<210> 701
<211> 406
<212> DNA
<213> Homo sapiens

<400> 701
aaaatttggt gcagatgccc gagccttaat gcttcaaggt gtagaccttt tagccgatgc 60
tgtggccggt acaatggggc caaagggaag aacagtgatt attgagcaga gttggggaag 120
tcccaaagta acaaaagatg gtgtgactgt tgcaaagtca attgacttaa aagataaata 180
caagaacatt ggagctaaac ttgttcaaga tggtgccaat aacacaaatg aagaagctgg 240
ggatggcact accactgcta ctgtactggc acgctctata gccaaaggaag gcttcgagaa 300
gattagcaaa ggtgctaata cagtggaaat caggagaggt gtgatgttag ctgttgatgc 360
tgtaattgct gaacttaaaa agcagtctaa acctgtgacc acccct 406

<210> 702
<211> 266
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (203)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c

633

<220>

<221> misc feature

<222> (239)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<400> 702

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gcagggtcca agcgggctttt cttctggatg caggaaccca agacagacca ggatgaggag 120
cattgccgga aagtcaacga gttatctgga acaaccccc gatgcctggg gcactggggg 180
ccagcggaac agcggccacg aantctctgc gctangcggg tgaggtggcn tgcagagcnt 240
gctggggaaa cntgagccac agccag 266
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<210> 703

<211> 244

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (194)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (207)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (208)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (211)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (216)

<223> n equals a,t,g, or c

<400> 703

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tacctacgcc taatctactc cacctcaatc acactactcc ccatatctaa caacgtaaaa 60
ataaaatgac agtttgaaca tacaaaaccc accccattcc tcccacact catcgccctt 120
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accacgctac tcctacctat ctccccctttt atactaataa tcttataaaa aaaaaaaaaa 180
aaaaaaaaaa aaangggggg gccgggnncc natttngccc aaagggggg ggttttaaaa 240
ttca 244

<210> 704
<211> 462
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c

<220>
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<222> (162)
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<220>
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<222> (168)
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<220>
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<222> (183)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (186)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (189)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (206)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (224)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (259)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (270)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<220>
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<222> (314)
<223> n equals a,t,g, or c

<220>
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<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (336)
<223> n equals a,t,g, or c

<220>
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<222> (339)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (344)

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<220>

<221> misc feature

<222> (347)

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<220>

<221> misc feature

<222> (356)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (358)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (381)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (401)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (406)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (427)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (443)

<223> n equals a,t,g, or c

<400> 704

gtaagancta agtgaccctc ggctgctgca ggggatctgc agcgnactgc agccatgggg 60
gcccacctgg tccggcgcta cctgggcgat gcctcggtgg ancccgaccc cctgcagatg 120
ccaaccttcc cgccagacta cggcttcccc gaacgcaagg ancgcganat ggtggccaca 180

637

cancangana tgatggacgc gcactnaagc tccanctgcg ggantactgc gccaccaaac 240
tcatccgggt gctcaattnc aaccttaaan cttccccac ttccttggct tgcnaaccag 300
gaacgggaca aatnggaata ntnccaaaca cccanaant tttnttnccc ttaaanantt 360
tttaaacgga aacgaagggt ntcccccccg gaaaaaaaaac nggggnaaaa aaaggggaaa 420
ttttttnccc cccccccgcc cgnggaaatt ttcccccccg tt 462

<210> 705

<211> 436

<212> DNA

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caaataccga tactttgctt gtttgatgag agcccggttt gaagaacata agaataaaaa 180
ggatatggcg aaggccaccc agctgctgaa ggaggccgag gaagaattct ggtaccgtca 240
gcattcacag ccatacatct tccctgactc tcctgggggc acctcctatg agagatacga 300
ttgctacaag gtcccagaat ggtgcttaga tgactggcat ccttctgaga aggcaatgta 360
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<210> 706

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 aaagaccttn tgcttacatg anggagcaca atcaattaaa tggctggtnt tctgatgaaa 240
 atgactggaa tgaaaaactc taccagtggt ggaagcggng agacatgang tnggaaaaac 300
 tgctggaagg gagggccgtg tgcaaggcgg tcctgaccag ngactnacca acccttgng 360
 ggctcaaata naacattngc cggngaacct gatattccct aaangccaaa aggaagaagc 420
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tatcttttctg gttgtgaact aaaggccgac aaagattatc actttaaggt ggataatnat 180
gaaaaatgagc accagttatc tttaagaacg gtcngtttng gggctggtgc aaaggatgag 240
ttgcacattg ttgaagcaga ggcaatgaat tacgaaggca gtccaattaa agtaacactg 300
gcaactttga aaatgtctgt acagccaacg gttttcccct tgggggcttt gaataacacc 360
accanggncc ttaagggtga antgtgggtc agggccatgc cnattagnng acag 414

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642\

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gctttctttt taatcccctg catcggatca ccggcgtgcc ccaccatgtc agacgcagcc 180
gtagacacca gctccgaaat caccaccaag gacttaaagg agaagaagga agttgtggaa 240
gaggcagaaa tggaagagac gccctgctaa cgggatgcta atgaggnaat ggggagcagg 300
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ggcccacccat cccggcgngg accttttccg ttagcgtggg tgatattggt cctgctcgag 180
gcncaaang gtccttggn tctccttcca tctgcccatt aactctcgca agtgccctccg 240
ngaggaaatt cnc 253

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tgctcttcaa aacatcattc tttatcacct acaccaggag ttttcattgg aaaaggattt 180
gaacctggtg ttactaacat ttttaaagac cacacaaggn agcaaaatct ttctggaagg 240
aagtgaaatg gttacacttc tggatgaatg atttggaat ccaaaagant ctgacatcca 300
tgggccacca anggtggtaa tttcatgttg taggttaaac tncncttttc cagcagncac 360
accttttggg natggntcaa ctggtnggga tacttgatta tttnatncaa tnnctcccn 420
atttaagggt tttccggggg tggggccctt caagggaatn ccngggctnt ttttnacac 480
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tgccagtggt atcttggtatg ctgctttcct gcctcatgct gctgtctcag gttcaagggtg 180
aagaacccca gagggaactg ccctctgcac ggatccgctg ncccaaaggc tccaaggcct 240
atggctccca ctgctatgcc ttgtttttgt caccaaaatc ctggacagat gcagatctgg 300
cctgccagaa gcggccctct ggaaacctgg tgtctgngct cagtggggct gagggatcct 360
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ctttatcctt tgtggacttg gaggaattat tagctgtggc acaacacata cagcattggg 300
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gatgaacgtc tccggaaaga gttttctcca tttggtacaa tcactagtgc aaagggttatg 180
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gcaagtgtac gancgtgttc caaccctgta atcaaccct accagccagc acctccttca 420
ggttacttca tggcagctat cccacagact cagaacgtgc tgcatactat cctcctagcc 480
aaattgctca actaanacca agtcctcgct ggactgctca gggtgccata actcatccat 540
tccaaaatat gcccggtgct atccgcccag ctgctcctan aacaccattt agtactatga 600
naacagcttc ttctcagcaa catcttaatg cacagccaca anttacaatg cacancctgc 660
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ccagtttggt gtcggtttct attccgcctt ccttgtagca gataaggtta ttgtcacttc 240
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agaagcatct gattaccttg aattggatagc aattaaaaat ctcgtaaaa aatattcaca 420

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 tgaagggttg caaagctgga caaataagc ctgccatttt catggactgt gggtttccca 240
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 ccttcctatn gacntttana ncccanttga caaacttcnc caacaattta aanttttatn 360
 ttcccgccct gtggcccca tattgaaggg caacttcnac cccgggaacn aaaacccaat 420
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<210> 716
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 <213> Homo sapiens

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<220>
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<222> (303)
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<222> (322)
<223> n equals a,t,g, or c

<220>
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<222> (326)
<223> n equals a,t,g, or c

<400> 716
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gctacccgggt gtgcggcagc gacggcacca cctacccgag cggctgccag ctgcgcgccg 120
ccagccagag ggccgagagc cgcggggaga aggccatcac ccaggtcagc aagggcacct 180
gcgagcaagg tccttccata gtgacgcccc ccaaggacat ctggaatgtc actggtgccc 240
angtgtactt gagctgtgag gtcacgga tcccgacacc tgcctcatc tggaacaagg 300
tanaaagggg tcactatgga nntcanagga c 331

<210> 717
<211> 486
<212> DNA
<213> Homo sapiens

<220>
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<222> (5)
<223> n equals a,t,g, or c

<220>
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<220>
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655

<222> (38)
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<220>
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<220>
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<220>
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<220>
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 <222> (107)
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 ctagtggntc ccccggnct gcaggaattc ggcacgagna tattagnacg cggttattcg 120
 gtgagcgggtg gtggtttatt cttccgtgga gttaagggtc ccgtggacat ctcaggtcctt 180
 cagggtcttc catctggaac tatataaagt tcagaaaaca tgtctcgaga tatgactcca 240
 ggaccactat attttctcca gaagggtcgct tataccaagt tgaatatgcc atggaagcta 300
 ttggacatgc aggcacctgt ttgggaattt tagcaaatga tgggtgtttg cttgcagcag 360
 agagacgcaa catccacaag cttcttgatg aagtcttttt ttctgaaaaa atttataaac 420
 tcaatgagga catggccttgc agtgtggcag gcataacttt ctgatgctaa tgttctgact 480
 aatgac 486

<210> 718
 <211> 479
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (436)
 <223> n equals a,t,g, or c

<400> 718
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accctcaact cagatggata caccctgag ccagacaaac cgcggccgat gcccatggac 120
acgagcgtgt atgagagccc ctacagcgac ccagaggagc tcaaggacaa gaagctcttc 180
ctgaagcgcg ataacctctt catagctgac attgaacttg gctgcggcaa ctttggtctca 240
gtgcgccagg gcgtgtaccg catgcgcaag aagcagatcg acgtggccat caagggtctg 300
aagcagggca cggagaaggc agacacggaa gagatgatgc gcgaggcgca gatcatgcac 360
cagctggaca acccctacat cgtgcggctc attggcgtct gccaggccga agccctcatg 420
ctggtcatgg agatgntggg ggcgggcgct gcacaagttc ctggtcggca agaaggaag 479

<210> 719

<211> 572

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (418)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (421)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (501)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (503)

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<220>

<221> misc feature

<222> (526)

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<220>

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<222> (546)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (559)

<223> n equals a,t,g, or c

<400> 719

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gatgattgtc atagaactgg gcaccaatcc gctgaagagc tcaggaattg aaaatggggc 120

tttccaggga atgaagaagc tctcctacat ccgcattgct gataccaata tcaccagcat 180
tcctcaagggt cttcctcctt cccttacgga attacatctt gatggcaaca aaatcagcag 240
agttgatgca gctagcctga aaggactgaa taatttggct aagttgggat tgagtttcaa 300
cagcatctct gctgttgaca atggctctct ggccaacacg cctcatctga gggagcttca 360
cttggacaac aacaagctta ccagagtacc tgggtgggctg cagagcataa agtacatnca 420
nggtggctac cttcataaca accatatctc tgtagttgga tcaaagtgaac ttctggccac 480
ctggacacaa ccacccaaaa ngnttcttaa ttccgggtgg gaagcntttt aacaaacccg 540
ggccangact ggggagaana cagccatcca cc 572

<210> 720

<211> 487

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (376)

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<220>

<221> misc feature

<222> (447)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (459)

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<220>

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<222> (460)

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<222> (467)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (468)

<223> n equals a,t,g, or c

<400> 720

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agggcagtgc cattgatagg aagcggcacc atgtactaca gacggctcat ccctcccctt 120
tgtcagtgtg tagaggggttc tttggatgta gacacttttc aaagaccaat gagctgctgc 180
agaagtctgg caagaagccc attgactgga aggagctgtg atcatcagct gaggggtggc 240
ctttgagaag ctgctgttaa cgtatttgcc agttacgaag ttccactgaa aattttccta 300
ttaattctta agtactctgc ataaggggga aaagcttcca gaaagcagcc atgaaccagg 360
ctgtccagga atgganctg tatccaacca caaacaacaa aggctaccct ttgacccaaa 420
tgtctttctc tgcaacatgg cttcggcnct aaatatgcnn aagacannat gagggccaat 480
acttaat 487

<210> 721

<211> 464

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (222)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (312)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<220>

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<222> (349)

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<220>

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<220>

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<222> (415)

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<220>

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<222> (436)

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<222> (443)

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<222> (448)

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<222> (455)

<223> n equals a,t,g, or c

<400> 721

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tcctgggttg tgaggagtcg ccgctgccgc cactgcctgt gcttcattgag gaagatgctc 120
gccgcgctct cccgcgtgct gtctggcgct tctcagaagc cggcaagcag agtgctggta 180
gcatcccgta attttgcaaa tgatgctaca tttgaaatta anaaatgtga ccttcaccgg 240
ctggaagaag ccctcctgtc acaacagtgc tcaccaaggg aagatgggct caaatactac 300
aggatgatgc anactgtacc cgaatggaat tgaaacagat cactgtntna acagaaaatt 360
atcntggttt ctgtccttgt gtgatgtcag aacttgctgt gtggcctgga gccgnatcac 420
cccaaacact ctccanctac ggntccgntt atttnccggg cttc 464
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<210> 722

<211> 320

<212> DNA

<213> Homo sapiens

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<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (43)

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<220>

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<222> (113)

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<222> (142)

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<222> (152)

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<222> (153)

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<222> (182)

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<220>

<221> misc feature

<222> (211)

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<221> misc feature

<222> (263)

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<220>

<221> misc feature

<222> (275)

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<220>

<221> misc feature

<222> (281)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (299)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (308)

<223> n equals a,t,g, or c

<400> 722

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agtcggtcag cgccggatga cctcagcagc catgtcgaag ccccatagtg aanccgggac 120
tgccttcatt cagaccacgc anctgcacgc anncatggct gacacattcc tggagcacat 180
gngccgcctg gacattgatt caccacccat nacaggcccg aacactggca tcatctgtac 240
cattggccca gcttcccgat cangtggaga cggtnaagga natgattaaa gcctggaang 300
aatgtggntc gtctgaactt                                     320
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<210> 723

661

<211> 152
<212> DNA
<213> Homo sapiens

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<220>
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<222> (87)
<223> n equals a,t,g, or c

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<222> (111)
<223> n equals a,t,g, or c

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<221> misc feature
<222> (127)
<223> n equals a,t,g, or c

<220>
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<222> (148)
<223> n equals a,t,g, or c

<400> 723
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gacctgcctc ctcatcgtn t cagcangga tcagtttccg gaggtctacg nccctactgt 120
cctttgngaa ctatattgcg cacattgngg cg 152

<210> 724
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (463)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (514)
<223> n equals a,t,g, or c

<220>
<221> misc feature

662

<222> (553)
 <223> n equals a,t,g, or c

<220>
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 <222> (559)
 <223> n equals a,t,g, or c

<220>
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 <222> (569)
 <223> n equals a,t,g, or c

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 aaaattgcat ctgatggctct caagggtcgt gtgtttgaag tgagtcttgc tgatttgcag 120
 aatgatgaag ttgcatttag aaaattcaag ctgattactg aagatgttca gggtaaaaac 180
 tgccctgacta acttccatgg catggatctt acccgtgaca aaatgtgttc catgggtcaaa 240
 aaatggcaga caatgattga agctcacggt gatgtcaaga ctaccgatgg ttacttgctt 300
 cgtctgttct gtgttggttt tactaaaaaa cgcaacaatc agatacggaa gacctcttat 360
 gctcagcacc aacaggtccg ccaaattccg aagaagatga tggaaatcat gacccgagag 420
 gtgcagacaa atgacttgaa agaagtgggtc aataaattga ttncagacgc attggaaaaag 480
 acatagaaaa ggcttggtgaa tctattatcc tctncatgat ggcttcgtta gaaaagtaaa 540
 aatgctgaag aanccaagnt tgaatgggna aac 573

<210> 725
 <211> 403
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (9)
 <223> n equals a,t,g, or c

<400> 725
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 tctagaacta gtggatcccc cgggctgcag gaattcggca cgagtcctgg tccgcgccag 120
 agccagcgc gcctcgtcgc catgcctcgg aaaattgagg aaatcaagga cttcctgctc 180
 acagcccgc gaaaggatgc caaatctgtc aagatcaaga aaaataagga caacgtgaag 240
 tttaaagtgc gatgcagcag atacctttac accctgggtca tctactgacaa agagaaggca 300
 gagaaactga agcagtcctt gccccccggt ttggcagtga aggaactgaa atgaaccaga 360
 cacactgatt ggaactgtat tatattaaaa tactaaaaat cct 403

<210> 726
 <211> 502
 <212> DNA
 <213> Homo sapiens

<220>
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<222> (7)
<223> n equals a,t,g, or c

<220>
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<222> (8)
<223> n equals a,t,g, or c

<220>
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<222> (12)
<223> n equals a,t,g, or c

<220>
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<220>
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<220>
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<220>
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<222> (428)
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<220>
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<222> (456)
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gccgctctag aactagtggg tcccccgggc tgcaggaatt cggcacgaga gccatcaggt 120
aagccaagat ggggtgcatac aagtacatcc aggagctatg gagaaagaag cagtctgatg 180
tcatgcgctt tcttctgagg gtccgctgct ggcagtaccg ccagctctct gctctccaca 240
gggctccccg cccancccg cctgataaag cgcgccgact nggctacaag gccaagcaag 300
gttacgttat atataggatt cgtgttcgac gtggtggccg aaaacgcca gttcctaagg 360
gtgcaattac ggcaagcctn tccatcatgg ngttaaccag ctaaagtttg ctcgaagcct 420

664

tcagtcennt gcagaggagc gagctggacg ccactntggg gctctgagag tcctgaattc 480
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<210> 727

<211> 361

<212> DNA

<213> Homo sapiens

<220>

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<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (309)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (318)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<400> 727

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 gtagtggggtc gctgcctgcc ccccccaaa tgccacacgc cgcccctcta ccgcatgcga 120
 atctttgcmc ctaatcatgt cgtcgccaag tcccgcttct ggtactttgt atctcagtta 180
 aagaagatga agaagtcttc aggggagatt gtctactgtg ggcaggtgtt tgagaagtcc 240
 cccctgcggg tgaagaactt cgggatctgg ctgcgctatg actcccgag cggcacccac 300
 aacatgtanc gggaatancg ggacctgacc aacgcaggcg ctgtcaacca gtgtaacggn 360
 g 361

<210> 728

<211> 401

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (200)

<223> n equals a,t,g, or c

665

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<222> (234)
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<220>
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<220>
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<222> (319)
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<220>
<221> misc feature
<222> (332)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c

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gagaccaatg aaatcgccaa tgccaactcc cgtcagcaga tccggaagct catcaaagat 120
gggctgatca tccgcaagcc tgtgacggtc cattcccggg ctcgatgccg gaaaaacacc 180
ttggcccgcc ggaaaggcan gcacatgggc atagttagcg gaaagggtaca gccnatgccc 240
gaatgccaaa naagggtcaca tggattaaga aaatgaagat tttgcgcccg ctgctcaaaa 300
aatacgtgaa tcttaaaana tcgatcgcca cntntttcac agcctgttcc taaagttaan 360
ggaatttttt caaaaacaac cgattctcnt ggaacacttc c 401

<210> 729
<211> 530
<212> DNA
<213> Homo sapiens

<220>

666

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<223> n equals a,t,g, or c

<220>
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<222> (10)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (527)
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agtaattcgc caaaatgacg aacacaaagg gaaagaggag aggcacccga tatatgttct 180
ctaggccttt tagaaaacat ggagttgttc ctttggccac atatatgcga atctataaga 240
aaggtgatat tgtagacatc aagggaatgg gtactgttca aaaaggaatg cccacaagt 300
gttaccatgg caaaactgga agagtctaca atgttaccga gcatgctgtt ggcattgttg 360
taaacaaca agttaagggc aagattcttg ccaagagaat taatgtgcgt attgagcaca 420
ttaagcactc taagagccga gatagcttcc tgaaacgtgt gaaggaaaat gatcagaaaa 480
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<210> 730
<211> 375
<212> DNA
<213> Homo sapiens

<220>
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<222> (33)
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<222> (87)
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<222> (97)
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<220>
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<222> (111)
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<222> (190)
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<222> (354)

<223> n equals a,t,g, or c

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<222> (367)

<223> n equals a,t,g, or c

<400> 730

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gggtggttgc tgccgaaatg ggcaagttca tgnaaccaag aaagtgggtgc ttgtnctggc 60
tggacgctac tccggacgca aagctgntca tcgtaanaga acattgaatg ntggcacctc 120
naanngccccc tacagccatg cnctgggtggc tgggaattga accgctaccc ccgcaaata 180
ncngctgccc tggggcanga agaagntcgc caggaggtca aagatatant cttttgtgaa 240
ngtgtgnac tacaatcacc tnatgccnc aaggtactct gtgngatatt ccccttgggg 300
caaagctgta cgttcattag gntgtcttcc ganattcctg gctcttaaac gctnggcccg 360
aaggagnccc aggtc 375
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<210> 731

<211> 207

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (143)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (177)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (187)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (201)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (207)

<223> n equals a,t,g, or c

670

<400> 731
 gcgcgcgtgc gaagggagcc gccgccatgt ctgcgcattct gcaatggatg gtcgtgcgga 60
 actgctccag ttctctgatc aagaggaata agcagacctc cagcactgag cccaataact 120
 tgaaggcccc caattccttc cgtacaacg gactgattca ccgcaagact gtggggcntgg 180
 agccggnagc cgacggcaaa ngtgtcn 207

<210> 732
 <211> 702
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (10)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (620)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (628)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (655)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (686)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (690)
 <223> n equals a,t,g, or c

<400> 732
 ggcagaatgn ctcccgc aaa gaaggggtggc gagaagaaaa agggccgttc tgccatcaac 60
 gaagtggtaa cccgagaata caccatcaac attcacaagc gcatccatgg agtgggcttc 120
 aagaagcgtg cacctcgggc actcaaagag attcggaaat ttgcatgaa ggagatggga 180
 actccagatg tgcgcattga caccaggctc aacaaagctg tctgggcca aggaataagg 240
 aatgtgccat accgaatccg tgtgcggtg tccagaaaac gtaatgagga tgaagattca 300
 ccaaataagc tatatacttt gggtacctat gtacctgtta ccactttcaa aaatctacag 360
 acagtcaatg tggatgagaa ctaatcgctg atcgtcagat caaataaagt tataaaattg 420
 caaaaaaaaa aaaaaagggc ggccgctcta gaggatccaa gcttacgtac gcgtgcatgc 480
 gacgtcatag ctcttctata gtgtcaccta aattcaattc actgccgtcg gtttacaacg 540

671

tcgtgactgg gaaaaccctg cgttacccaa cttaatcgcc ttgcagcaca tcccctttcg 600
ccagctgcgt aataacgaan aggcccgnac cgatcgccctt tccacagttg cgcancctga 660
atggcgaatg gacgcgcctt taccgngcan taagcgccgc gg 702

<210> 733
<211> 441
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (99)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (101)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (118)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (126)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (152)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (185)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (212)
<223> n equals a,t,g, or c

<220>
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<222> (260)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (310)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c

<400> 733
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anctagtgggt tcccccgggc tgcaggattt cggcacganc ncgtgcagat tcgagcanag 120
gagcgnaagg gaacgtcatc gtttggaag cntcgcaata agacgcacac gttgtgccgc 180
cgctntggct ctaaggccta ccaccttcag angtcgacct gtggcaaatt tggctaccct 240
gccaaagcgca agagaaagtn taactggagt gccaaaggcta aaagacgaaa taccaccgga 300
actggtcgan tgaggcacct aaaatttgta taccgcagat tcaggcatgg tttccntgaa 360
ggaacaacac ctaaacccaa gagggcagct gttgcagcat ccagttcatc ttaagattgt 420
caacgattag tcatgcaata a 441

<210> 734
<211> 379
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (324)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (342)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (346)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<400> 734

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ggccgcagaa gcgagatgac gaagggaacg tcatcgtttg gnaagcgctg caataagacg 60
cacacgttgt gccgcgctg tggctctaag gcctaccacc ttcagaagtc gacctgtggc 120
aaatgtggct accctgccaa gcgcaagaga aagtataact ggagtgccaa ggctaaaaga 180
cgaaatacca ccggaactgg tcgaatgagg cacctaaaaa ttgtataccg cagattccag 240
catggattcc gtgaaggaac aacacctaaa cccaagaggg cagctgttgc agcattccag 300
ttcatcttta agaatgtcaa cgnnttttagt catgcaataa antgtnctgg ggttttaaaa 360
aattaaaaga aaagnaanaa 379
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<210> 735

<211> 187

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (172)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (176)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (177)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (179)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<400> 735
gcgggatcgt cggtaaatac gggacccgct atggggcctc cctccggaaa atgggtgaaga 60
aaattgaaat cagccagcac gccaaagtaca cttgctcttt ctgtggcaaa accaagatga 120
agagacgagc tgtggggatc tggcactgtg gttcctgcat gaagacagtg gntggngng 180
cctgnac 187

<210> 736
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (361)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (371)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (409)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (429)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (444)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (452)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (479)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (490)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (519)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (553)
<223> n equals a,t,g, or c

<400> 736

676

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tcgacccacg cgtccgcccc cgctccggcc tcagccctac cagcactggt catgtctaaa 60
ggtcacgcgta ttgaggaagt tcctgaactt cttntggtag ttgaagataa agttgaaggc 120
tacaagaaga ccaaggaagc tgttttgctc cttaagaaac ttaaagcctg ggaatgatat 180
caaaaagggtc tatgcctctc agcgaatgag agctgggcaa aggcaaatg gagaaaccgt 240
cgccgtatcc agcgcagggc ccgtgcatca tctataatga ggataatggt atcatcaagg 300
ccttccagaa acatccctgg aattactctg cttnaatgtn aagcaagctg aaacattttg 360
naagcttgct ncctgggtggg gcatgtgggg acgtttncgg cattgggang gaaatggctt 420
ttccgggant ttaganggan tgtnacgggc antgggcgta aagcgntttc cctccaagng 480
ttaactacan tcttcccagg caccaagatg gattaatana gatcttggca gaatctggaa 540
aagcccagag gtnccaaggc cccttcgggc accagc 576

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<210> 737
 <211> 297
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (7)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (243)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (254)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (261)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (266)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (275)
 <223> n equals a,t,g, or c

<400> 737
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 ctggcaaaaa tgtcactttg cctgctgtat tcaaggctcc tattcgacca gatattgtga 120
 actttgttca caccaacttg cgcaaaaaca acagacagcc ctatgctgtc agtgaattag 180
 caggtcatca gactagtgtc gagtcttggg gtactggcag agctgtggct cgaattccca 240

ganttcgagg tggngggact naccgntctg gccanggtgc ttttggaac atgtgtc 297

<210> 738

<211> 354

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (80)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (84)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (98)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (120)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (148)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (193)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (286)

<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (303)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (329)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (351)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (353)
 <223> n equals a,t,g, or c

<400> 738
 gcgagaatga agactatttct cagcantcag actgtcgaca ttccagaaaa tgtcgacatt 60
 actctgaagg gacncacagn tatngtgaag ggcccccag gaaccctgcg gagggacttn 120
 aatcacatca atgtataact cagccttntt ggaaagaaaa aaaagaggct ccgggttgac 180
 aaatggtggg gtnacagaaa ggaactggct accgttcgga ctattttag tcatgtacag 240
 aacatgatca aggggtgttac actgggcttc cgttacaaga tgaggnetgt gtatgctcac 300
 ttncatcatca acgttggttat ccaagagant gggctctattg ttgaaatcca nant 354

<210> 739
 <211> 504
 <212> DNA
 <213> Homo sapiens

<400> 739
 ccgccatcat gggtcgcatg catgctcccg ggaagggcct gtcccagtcg gctttaccct 60
 atcgacgcag cgtccccact tggttgaagt tgacatctga cgacgtgaag gagcagattt 120
 acaaactggc caagaagggc cttactcctt cacagatcgg tgtaatcctg agagattcac 180
 atgggtgtgc acaagtacgt tttgtgacag gcaataaaat tttaagaatt cttaagtcta 240
 agggacttgc tctgtatctt cctgaagatc tctaccattt aattaagaaa gcagttgctg 300
 ttcgaaagca tcttgagagg aacagaaagg ataaggatgc taaattccgt ctgattctaa 360
 tagagagccg gattcaccgt ttggctcgat attataagac caagcgagtc ctccctccca 420
 attggaaata tgaatcatct acagcctctg ccctggctcg ataaatttgt ctgtgtactc 480
 aagcaataaa atgattgttt aact 504

<210> 740
 <211> 399
 <212> DNA
 <213> Homo sapiens

<400> 740

679

ggacccgccca acatgggccc cgttcgcacc aaaaccgtga agaaggcggc ccgggtcatc 60
atagaaaagt actacacgcg cctgggcaac gacttccaca cgaacaagcg cgtgtgcgag 120
gagatcgcca ttatccccag caaaaagctc cgcaacaaga tagcagggtta cgtcacgcat 180
ctgatgaagc gaattcagag aggcccagta agaggatatct ccatcaagct gcaggaggag 240
gagagagaaa ggagagacaa ttatgttcct gaggtctcag ccttgatca ggagattatt 300
gaagtagatc ctgacactaa ggaaatgctg aagcttttgg acttcggcag tctgtccaac 360
cttcagtcac tcagcctaca gttgggatga tttcaaaac 399

<210> 741

<211> 431

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (335)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (393)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<400> 741

aaacaacggt cgtgccaaaa agggccgcgg ccatgtgcag cccattcgct gcacgaactg 60
cgcccgggtgc gtgcccaagg ataaggccat caagaagttt gtcattcgga acattgtaga 120
agccgctgct gtcagggaca tatctgaagc aagcgtcttc gacgcctacg tgcttcccaa 180
gctctatgtc aagctgcatt attgcgtgac tgtgccatcc atagcaaggt tgtaggaat 240
cgatcccgtc aagcccggaa ggaccgaaca cccccaccac gattcagacc tgctggcgct 300
gcaccttcga cctccaccaa agcccatgta aagangccgt ttttgtaagg acggaaggaa 360
aattaccttg gaaaaataaa atggaagttg tanttttaaa aaaaaaaaaa aaaccnagg 420
ggggncccgt c 431

<210> 742

<211> 357

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (178)

680

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (240)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (273)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (297)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (324)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (353)

<223> n equals a,t,g, or c

<400> 742

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gtgcagcggt tcattaaaaat cgatggcaag gtccgaactg atataacctt ccctgctgga 60
ttcatggatg tcatcagcat tgacaagacg ggagagaatt tccgtctgat ctatgacacc 120
aagggtcgct ttgctgtaca tcgtattaca cctgaggagg ccaagtacaa gttgtgcnaa 180
gtgagaaaga tctttgtggg cacaaaagga atccctcatc tgggtgactca tgatgcccgn 240
accatccgct accccgatcc cctcatcaag gttaatgatc cattcatatt gatttanaga 300
ctggcaagat tactgatttc atcnatttcg acactggtaa cctgtgtatg gnnactg 357
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<210> 743

<211> 249

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (42)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (115)
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<220>
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<222> (122)
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<220>
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<222> (158)
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<220>
<221> misc feature
<222> (200)
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<221> misc feature
<222> (221)
<223> n equals a,t,g, or c

<220>
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<222> (248)
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<400> 743
ggggcggtat gccgccaac gcttccgcaa agctcagtg cncattgtgg agcgccctcac 60
taactccatg atgatgnacg ggcgcaacaa cggcaagaag ctcatgactg tgcgnatcgt 120
cnagcatgcc ttcgagatca tacgctgtct cacaggcnaa gaaccctctg caggtcctgg 180
tgaacgccat catcaacatn ggtccccggg aagantccac ncgcattggg cgcgccggga 240
ctgttgana 249

<210> 744
<211> 383
<212> DNA
<213> Homo sapiens

<400> 744

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gaagaattgc atcgtgctca tcgacagcac accgtaccga cagtggtagc agtcccacta 60
tgcgctgccc ctgggccgca agaagggagc caagctgact cctgaggaag aagagatttt 120
aaacaaaaaa cgatctaaaa aaattcagaa gaaatatgat gaaaggaaaa agaatgccaa 180
aatcagcagt ctcctggagg agcagttcca gcagggcaag cttcttgctg gcacgccttc 240
aaggccggga cagtgtggcc gagcagatgg ctatgtgcta gagggcaaag agttggagtt 300
ctatcttagg aaaatcaagg cccgcaaagg caaataaatc cttgttttgt cttcacccat 360
gtaataaagg tgttttattgg ttt                                     383
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<210> 745

<211> 452

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (314)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (328)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (334)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (416)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (429)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (435)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (451)
<223> n equals a,t,g, or c

<400> 745
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ggcagccttc ctcaaaaagt ccgggaagct gaaagtcccc gaatgggtgg ataccgtcaa 120
gctggccaag caciaagagc ttgctcccta cgatgagaac tggttctaca cgcgagctgc 180
ttccacagcg cggcacctgt acctccgggg tggcgctggg gttggctcca tgaccaagat 240
ctatggggga cgtcagagaa acggcgatcat gcccagccac ttcagccgag gctccaagag 300
tgtggcccgc cggntcctcc aagccctngg aggnngctgaa aatgggtggaa anggaccaag 360
atggcgggcc gcaaaactgac acctcaggga caaagagatc tgnacagaat cgccgnacag 420
gtggcagcnt gccancaaag aagcattaga nc 452

<210> 746
<211> 114
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (85)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (98)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (103)

684

<223> n equals a,t,g, or c

<400> 746

tgcattgctgg ngctgggtcct gnccttgctg tcctccagct ctgctgagga gtacntgggc 60
ctgtctgcaa accaatgtgc cgtgncagcc aaggacangg tgnactgtgg ctac 114

<210> 747

<211> 165

<212> DNA

<213> Homo sapiens

<400> 747

ggcacagcca cccagggcct gagtcctgtc cacaccccag gtgacggccg gctccacaag 60
gcagtgagcg tgggcccccg ggtgcacatc attgaggagc tgcagatctt ctcacgaggga 120
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<211> 583

<212> DNA

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 atgaccctg gattggcaag ttattgtatc ttgaggactt cttcgtgatg agtgattata 180
 gaggccttg cataggatca gaaattctga agaattctaa ccagggtgca atgagggtgc 240
 gctgcagcag catgcacttt tttggttagca gaatggaatg aaccattcat naacttctat 300
 aaaagaagag gtgcttctga tctgtccagt gaagaagggt ngagacttgt taagaatcga 360
 caaggagtct tgctaaaaat ggcaacntag gagtgaggaa tgcttgctgt agatgacaac 420
 ctccattcta ttttagaata aaattcccca actttctntt gnttttctat gctgggttgg 480
 agtgaaatta atttaaata gcacccattt caaaagcttt aattaccaag tgggcgnttg 540
 ntncntgtt ttgaaaattg aaggtcttgt tttaaaagggn ggc 583

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687

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tctccgctcc cagacatggg tccctcggtt tcctgcctcg gaagcgana gcaggcatcg 180
tggaaggtg aagagcttcc ctaaggatga cccgtccaag ccggtccacc tcacagcctt 240
cctgggatac aaggctggca tgactcacat cgtgcgggaa gtcgacaggc cgggatccaa 300
ggtgaacaag aaggaggggtg gtggagggtg tgaccattgt anagacacca nccatggtgg 360
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<210> 750

<211> 507

<212> DNA

<213> Homo sapiens

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<222> (475)

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<222> (503)

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gaagaaatga agtgaccatc cagcctttcc caattagact tcctctcctt ccacccctca 180
tttctttttt gcacacatta cagggtggtg gttctgtgat aatgaaaagc atcagaaaag 240
cttttgtact ttgtggtttc ctctattttg aattttttga tcaaaaaact gattagcaga 300
atatagtttg gagtttggct tcactctcct ggggttcccc tcaactccctt ttttggcaac 360
cccatctgta gcctcttccct ctactcaggc agtcgacccg ccacgatgag aagtgggacc 420
agcagagggc gccaaactta ggagcccgtt ttnccacca gcttcattca cccantggac 480
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<210> 751

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<222> (158)
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<400> 751

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acactgttggt ctgngaggaa tgcacagtgg ntccctgntt atccatcccc tgcaaaactgc 180
agagtggcac tcattgctng tggacggacc agctnctnca aggctntgaa aagggttnc 240
agncccgtca ccttgcntgc ctgcctcggg agccagggtt gggcacctgg cagtnccctgc 300
ggtcccagat agcctgaata ntgnccggag nggaagctga agcctgcaca gtgtncaccc 360
tgntnccact cccatctttc tttcggacaa tgaaataaag agntaccacc cagcaaaaan 420
aaaaaaaaaa acctg                                     435
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<212> DNA

<213> Homo sapiens

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ccaccccacc cacagacggc cttctgcaat tccgacctcg tcatcagggc caagttcgtg 180
gggacaccag aagtnaacca gaccacctta taccagcgtt atgagatcaa gatgaccaan 240
atgtataaag ggttccaagc cttaggggat gccgctgaca tccggttcgt ctacaccccc 300
gccatggaga gtgtctgcng atactttcac aggtcccaca accgnagcga ggagtttctc 360
attgntggaa aactgcagga tggacttttg cacatcacta cctgcanttt tgtggctccc 420
tggaacagcc tgagcttagc tcagcgccgg gncctnacca agacctacac tgttggctgn 480
gaggaaatgc acaagtgtt ccctgtttat ccatccccctg caaactgcag agtgggcact 540
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<210> 753
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<212> DNA
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cacagaagga ttccgaggct ggaatggaca gtgccttgat gtggacgagt gcctggaacc 120
aaacgtctgc gcaaattggtg attgttccaa ccttgaaggc tcctacatgt gttcatgccca 180
caaaggctat acccgactc cggaccacaa gcaactgtaga gatattgatg aatgtcagca 240
agggaatcta tgtgtaaacg ggcagtgcaa aaataccgag ggctccttca ggtgcaactgt 300
ggacaggggt taccagctgt cggcagctaa agaccagttt gaagacattg atgaatgccca 360
caccgtcatc tctgttgctc atgggcatgc aagaacactg aagctctttt ccatgtgttt 420
tttgaccang gttacagaac atctgggctt gganacactg tgaaaaattt caatgaatgc 480
ttggaagana aaatttttgc canaaaagaa antgctttat actgcagggt cctatgatgt 540
cttgtcc 547

<210> 754

<211> 384

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (374)

<223> n equals a,t,g, or c

<400> 754

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gaacgggcgg aagcagagtc tgggggagct catcggcact ctgaacgcgg ccaaggtgcc 120
ggccgacacc gaggtggtt gtgctcccc tactgcctat atcgacttcg cccggcagaa 180
gctagatccc aagattgctg tggtgcgca gaactgctac aaagtgacta atggggcttt 240
tactggggag atcagccctg gcatgatcaa agactgcgga ccacgtgggt ggtcctgggg 300
cactcanaga gaagcatgtc tttggggaat cagatgagct gattgggcag aaagtggccc 360
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<210> 755

<211> 253

<212> DNA

<213> Homo sapiens

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cagtgcgaagc agccctgccca gccacctcct gtgtgcccca cgccaaagtg cccaagagcc 120
atgtccaccc ccgaagtgcc ctgagcctta cctgcctcct ccttgctccac ctgagcattg 180
cccacctcca ccttgccagt ataaatgcc tctgtngca accataccac cctggcagcn 240
gaanttcccc cnn 253

<210> 756
<211> 183
<212> DNA
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695

<223> n equals a,t,g, or c

<220>

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<222> (148)

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ctaccttctg ccctgtgtnt ggnacctaca tccttaatga ttgtcctntt acccattctg 120
gaattttttt ttttttaaaa naantncnga aagcattttg aaaaaaaaaa aacaaaaaaaaa 180
aag 183

<210> 757

<211> 99

<212> DNA

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<222> (79)

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tcagcgtccg ggattgnanc anctgggatt ggagtttg 99

<210> 758

<211> 60

<212> DNA

<213> Homo sapiens

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<220>

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<222> (38)

<223> n equals a,t,g, or c

697

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<221> misc feature
<222> (40)
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<220>
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<222> (46)
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<210> 759
<211> 66
<212> DNA
<213> Homo sapiens

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<220>
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<222> (66)
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cctnn

<210> 760
<211> 487
<212> DNA
<213> Homo sapiens

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<220>
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<222> (473)
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<222> (475)
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<220>
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ccaggcggac aaagttcagt gtcgggaatt ttccccgtga cattcactgg ggcattgagat 120
tttggaagaa gttttttact ttggttttagt ctttttttcc ttcccttttta ttcagctaga 180
atctctgggt ggttgatggt aggggtataat gtgtctgtgt tgcttcaaatt tggctctgaaa 240
ggctatcctg ctgaaagtcc tgctttccta tctagcattt atttctctgg caaacttttc 300
tttcttttct tttttaaaagt aaacttgtgt attgagctta actgtatttc agtattttcca 360
gcttatgtgt acattattcc aatgataccc aacagttatt tatattttnt aacaaattca 420
cagtctgaat gangacttta ttcatggat tataataagg aatgaggtaa ttngngnctc 480
acattca 487

<210> 761
<211> 422
<212> DNA
<213> Homo sapiens

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<222> (297)
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<220>
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<220>
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<222> (382)
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<220>
<221> misc feature
<222> (403)
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<220>
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<222> (406)
<223> n equals a,t,g, or c

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gggtggggct gtgagctctt aatttgtttt tgattctgaa aaactctgct tcctggcatc 120
caggagttag agattgagcc ttcatcttct tttctcaaaa ctagtttttg atgctttctt 180
tcatgggaat agtcactttt ttatttagta aatgcattg ctggaaccac caaggatgtg 240
gaatgtcctt gantgtatta tttatgcaag tcacagtcac gtttgccatc atggcantat 300
ttgaaacact aataatgtgt ttttactttt ttatccccgt taaaatgatn ttnaaaagga 360
aaaagggtggg tatagcccct anaattttctg ggtccaaatt atnccnaaaa tttcctaaaa 420
aa 422

<210> 762
<211> 375
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

700

<220>
<221> misc feature
<222> (315)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (373)
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tcaactgatg aagtaacaat aaagttataa atgataatga tcagatgaaa taatttataa 120
ctttattggt acttcatcag tgtttccttt tgaaagggtg atgaattcat tacattttta 180
ttctaagtga ttatctgtag attagaagat aaaatcaagc atgtatctgc ctatactttg 240
tgagttcacc tgtctttata ctcaaaagtg tcccttaana gtgtccttcc ctgaaataaa 300
tacctaaggg agtgnaacag tctctggagg accactttga gcctttggaa gttaagggtt 360
cctcagccac ctngt 375

<210> 763
<211> 372
<212> DNA
<213> Homo sapiens

<220>
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<222> (261)
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<220>
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<222> (320)
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<220>
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<222> (338)
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<220>
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<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (354)

<223> n equals a,t,g, or c

<400> 763

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atTTTTtcat caagagaaga ataactttac taaattttat ttctttattt gcaaaagaat 120
ctttattaaa acaaacaatc ttaactatgc acatgatgtg accagatcat cttgaaaata 180
ttcctcttta gtaggaactc tttgttttta actcttggtg tggtcagaat ataatacttc 240
cataattact tataattcct ntccgggtac tgggggctat aaatacaact tttttaaatg 300
naattcatgg ttatcaaccn ggctccaagt accattangg ggtncctat gggnaattac 360
cttgggaaag tc 372
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<210> 764

<211> 195

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (67)

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<220>

<221> misc feature

<222> (71)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (94)

<223> n equals a,t,g, or c

<220>
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<222> (128)
<223> n equals a,t,g, or c

<220>
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<222> (146)
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<220>
<221> misc feature
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<220>
<221> misc feature
<222> (153)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c

<400> 764
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ctttganatt naggaaggta aggatnggtc agangatgta acttgatgtg agcagtaata 120
aacctgtntt aaatatcata ctgtgnatat ntnattgaaa atttatttca gagcggaaaa 180
acnttagcta aaatc 195

<210> 765
<211> 103
<212> DNA
<213> Homo sapiens

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<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (76)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (91)
<223> n equals a,t,g, or c

<220>
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<222> (94)
<223> n equals a,t,g, or c

<400> 765
attaataatg gataccattc taaacaagtn aatccaagtt aagcccggtta aggagaaaga 60
aattaaggtt agcggntcat gtncaagctg ngntgaaag tgg 103

<210> 766
<211> 538
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<220>
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<222> (327)
<223> n equals a,t,g, or c

<220>
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<222> (379)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (441)
<223> n equals a,t,g, or c

<220>

<221> misc feature
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<220>
<221> misc feature
<222> (450)
<223> n equals a,t,g, or c

<220>
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<222> (474)
<223> n equals a,t,g, or c

<220>
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<222> (504)
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<220>
<221> misc feature
<222> (516)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (520)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (522)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (526)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (534)
<223> n equals a,t,g, or c

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ggcttcatcc tcaccgagcg cctgggcagc ggcacgtacg ccacggtgta caaggcctac 120
gccaaagaagg aactcgtga agtggtagcc ataaagtgtg tagccaagaa aagtctgaac 180
aaggcatcgg tggagaacct cctcacggag attgagatcc tcaaggcatt cgacatcccc 240
acattgtgca gctgaaagac tttcagtgtg agctgggggc ggggncgctg ccaaaaggag 300
tggagaagga catctntttc aggccgntc tctgcctctt aaaacaacag ttgggaacag 360

ttgaaccaat taatcttanc ttcaatccat tgggaagttt ttttgccggc caaggggggg 420
gccggaaacc ttggtncctt nggcntttcn aatcccaatt aaaccccggc caanggaatt 480
ttcttgcccc cttgaaagaa aaanggtttg ggcccncccn tnggtncctt tccnaatg 538

<210> 767
<211> 415
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (350)
<223> n equals a,t,g, or c

<400> 767
ctttcccaag ggaaacactc agctttctat agaaaattgc actttttgtc gagtaatcct 60
ctgcagtgat acttctggta gatgtcacc c agtggtttt gttaggtcaa atgttcctgt 120
atagtttttg caaatagagc tgtatactgt ttaaattgtag caggtgaact gaactggggg 180
ttgctcacct gcacagtaaa ggcaaacttc aacagcaaaa ctgcaaaaag gtggtttttg 240
cagtaggaga aaggaggatg tttatttgca gggcgccaag caaggagaat tgggcagctc 300
atgcttgaga cccaatctcc atgatgacct acaagctaga gtattttaan gcagtggtaa 360
atttccagga aagccagaag ttaaaggcca aaattgtaaa tcagtcgaga tcggg 415

<210> 768
<211> 425
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (351)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (381)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (422)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (423)

<223> n equals a,t,g, or c

<400> 768

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ctttgtacag gggctcagtt caggggaagag ttgagcttct ctctgagggg tccctagggg 60
gacccctcag gccaggccct gatccagttc tccaggggtct ttctcagggt caggtccatg 120
gggagaccat ggggtgcttg tctgacactg acctcgccct gctgagtccc cccatcagac 180
tgtccttcct ctgcagcgag tgtctgcagg gtctggatcc aggaaaggaa ttctgatctg 240
tggaagtttg tctccccgt gtgtgtcctg cactaaatgt ccaaaccctg atacaggatg 300
taatgcagag agggccacag gcacaacca ggctgacaa tcccgtatgt nggaagtaga 360
actgaccccc aacaccacaga ngtcattgng aaatactcac ggtatacatg gaaaaaaaaa 420
annaa 425
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<210> 769

<211> 256

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (83)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (85)

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<220>

<221> misc feature

<222> (112)

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<220>

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<222> (120)

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<220>

<221> misc feature

<222> (151)

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<220>
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<222> (163)
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<220>
<221> misc feature
<222> (211)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (235)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c

<400> 769
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gcaccagctg gctcccaaa ggngnggcag ccgtgcttat atttttatgg tnacaatggn 120
cacaaaatta ttatcaacct aactaaaaca ntccttttct ctnttttcct ggaattatca 180
tggaagttttc taattctctn ttttggaat ngtagattgt ttttgaaatg ctttnacgat 240
gttaaaatan tttatt 256

<210> 770
<211> 316
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (158)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (173)

<223> n equals a,t,g, or c

<220>

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<222> (200)

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<220>

<221> misc feature

<222> (228)

<223> n equals a,t,g, or c

<220>

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<222> (266)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (267)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (281)

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<220>

<221> misc feature

<222> (284)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (291)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (294)

<223> n equals a,t,g, or c

<400> 770

ggnagagggtt caacgatgtg gtgtggcatg taagctggtc catcanagcc aacatcctgg 60
ctgtctctgg tggagacaat aaggaggagt tacagatgca gccacagatt gatcatctgc 120
ctttaacgtg aatcggagat gctttgtaat ctactgtgcc agctgaagca ctncatgtta 180

709

cgaggaagaa actacaagtn atgttcaaact ctattttggg tcattttnat gtacctttgg 240
gttcaggcat tatttggggg gttttnttc caaaggaact naantaaagt natnttgctt 300
attaaaaaaaa ggaaaaa 316

<210> 771
<211> 68
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<400> 771
caaaagcngg agcnccaccg cnggcgaccg cncctanaact agtggatccc ccggnetgca 60
ggaattca 68

<210> 772
<211> 258
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (42)

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<220>

<221> misc feature

<222> (45)

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<220>

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<222> (139)

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<222> (155)

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<222> (189)

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<222> (225)

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<220>
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<222> (235)
<223> n equals a,t,g, or c

<220>
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<222> (250)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (257)
<223> n equals a,t,g, or c

<400> 772
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nttggtcat ttccacatgc ttattccag caatcaaat aattaaaaac atctcaaat 120
attatacaca tacaaaatng gtacagagtc ttttntctcc tcccaccctt aggggggaaa 180
actgcttnt gctttgggaa gttgtctctg aaacccgggg acagnggacg caggncagac 240
taggagggan ccgggang 258

<210> 773
<211> 587
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (535)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (559)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (565)
<223> n equals a,t,g, or c

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<221> misc feature
<222> (570)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (572)

<223> n equals a,t,g, or c

<400> 773

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ggatcccaac tgctcctgcg ccgccggtaa gaggctgggg atgccagtg tagactgtag 60
cgctagagaa gcaatttctg acccctcttt ctttctctgg tcaactcaatt tcaggacagg 120
agttgctcct tcccaaagag ttttggggta tctttctctc cattctaggt tattcggagc 180
ccccctttta ccgttaagga gatctgagtt aatggcttgc tcaagttccc aggaatcggg 240
tgtggactga ggaactcggc ccggggtct tagtacgccg tcccttggtc aggtatccag 300
ggacgggttct cacctctgtc ttttctcctt gcagggtgact cctgcacctg cgccggtccc 360
tgcaaagtca aagagtgcaa atgcacctcc tgcaagaaaa gtaagtggga tcctctcttt 420
cctctacccc ttcctgtcct ccagcctgtc ccctcttcac catcctcagg ggaattaaag 480
caagtctggg gatgccccat tgcgcgggga aattggtggc ctctcagtg atccntatca 540
aggagaagca aggaatccnt aatnccggn gncggttgta cttaact 587
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<210> 774

<211> 89

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

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<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (76)

<223> n equals a,t,g, or c

<220>

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<222> (77)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (79)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (83)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<400> 774

ggcagagggga aacatcaggn atgctaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaanannana aanaantat 89

<210> 775

<211> 113

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

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<220>

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<222> (30)

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<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

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<222> (57)

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<220>

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<222> (59)

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<220>

<221> misc feature

<222> (75)

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<220>

<221> misc feature

<222> (77)

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<220>

<221> misc feature

<222> (106)

<223> n equals a,t,g, or c

714

<400> 775

gggtccggcggn ggtggaggga aacgcctccn tntctatata aggaatttcc cggtgtntnc 60
gggtcctttt ccctntnttc agagtggggg gcccaaattt gggcgtctg ttt 113

<210> 776

<211> 66

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

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<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<400> 776

ggcanaggat ttnaaccctc accttcgtgt ttcccccaat gtttaaaang tttggatggt 60
ttgtng 66

<210> 777

<211> 441

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (401)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (436)

<223> n equals a,t,g, or c

<400> 777

atttgtatga aagaacttaa gcaaccttaa tattggctga gacttttaaa agagaaggag 60

715

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aatttacttt tttgcctaata taggaggaag cttgggtcata aggaaaaaga gctgtgttta 120
ggaaatagtg tgtgcccttt gaattaatgg agtgacaccg tgattcatga caggattcca 180
tttactggct gtatgccagc tgctgacagt ctataagtct taatagagat ggagtagagg 240
agctgaaggt tggcatctgc tcattgatga caactatggt tacaatatgt tgtggactag 300
ttggggcact gaggcaggag aatcacgtgg agcccacggg ttcaagacca gcctgggaaa 360
catagcaaga ccttgtttct aaaaaaaaaa aaaaaaaaaa ncgagggggg gcccggtacc 420
caattcgccc taaagngagt c                                     441

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<210> 778

<211> 483

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (335)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (356)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (472)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (478)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (481)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (482)

<223> n equals a,t,g, or c

<400> 778

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gcttactttt aaccagtgaatttgacctgc ccgtgaagag gcgggcataa cacagcaaga 60
cgagaagacc ctatggagct ttaattttatt aatgcaaaca gtaccttaaca aaccacagg 120

```

716

```

tcctaaacta ccaaacctgc attaaaaatt tcggttgggg cgacctcgga gcagaaccca 180
acctccgagc agtacatgct aagacttcac cagtcaaagc gaactactat actcaattga 240
tccaataact tgaccaacgg aacaagttac cctagggata acagcgcaat cctattctag 300
agtccatata aacaataggg tttagacact cgatnttgga tcaggacatc ccgatngtgc 360
agccgctatt aaagggtcgt ttgttcaacg attaaagtcc tacgtgatct gagttcagac 420
cggagtaatc caggtcgggt tctatctact tcaaattcct ccctggaaaa nnagaagngg 480
nng

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<210> 779

<211> 389

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (261)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (325)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (337)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (362)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (367)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (389)

<223> n equals a,t,g, or c

<400> 779

```

ccctcttccc ggctccagct ccgcccagag ctccagcctt tgctccccct cccaaagtcc 60
cctccccgga gcggagcgca cctaggggtcc ctcttcgctc cccccagccc agctacccgt 120
tcagaccagc agcctcgggg ggcaccccccc cgccagcctg cctccctccc gtcagccct 180
gccaggttcc ccagccatg aatctcttcc gattcctggg aaaactctcc caactcctcg 240
ccatcatctt gctactgctc naaatctgga attcccgtc gtgcgccgaa attcaggaaa 300
aaaacagtcc cgtttggtgt ggggnnttca atggccnaat ttgaaatcct ttcacaataa 360
tntttantct aaaaattttt ttaaagggn

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389

<210> 780
<211> 66
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

<400> 780
ttgttttttaa aactatgnac caggtttcta atgatgaaat aaagcacctg tttgttttat 60
accaaaa 66

<210> 781
<211> 255
<212> DNA
<213> Homo sapiens

<220>
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gtaactgcgg acaagttgct ttnacctgaa ttnatgata catttcatta aggttccagt 120
tataaaatat ttngttaaat atttattaan gtggactata gantgcaaac tnccatttnc 180
cngntaaact tgtttttaaa ttatggccnt aggtaaccca tatngtaggg tattaatttc 240
cttgaacca aacca 255

<210> 782
<211> 348
<212> DNA
<213> Homo sapiens

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tgaatccacc cgagnttggc ctcccaagtg gctgggcatt ataggcgtga gcactcacgt 120
ccnccgctca aaatngcata ttcaaagaag caatttcagt tcctttctaa gctttgtgtnag 180
tnaaggggct cactgactt cctaggccct gtaaatttaa accagtcttt aaggttttgc 240
caggaaagt cccttctttc caagtgggtt tttccaaatg ggcacaatgg caagcnaac 300
agaggangaa acattaaaaa aannaaaaaa aatttggggg ggggnncc 348

<210> 783
<211> 160
<212> DNA
<213> Homo sapiens

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<222> (49)
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<222> (131)
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<222> (141)
<223> n equals a,t,g, or c

<220>
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<222> (142)
<223> n equals a,t,g, or c

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<221> misc feature
<222> (144)
<223> n equals a,t,g, or c

<220>
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<222> (146)
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atctgatgaa aaggtcanac tnaaacgcct tgcacggcct ctcggcttga tcacagctcc 120
ctaggtaggt naccacagag nngncncttc tagtgagcct 160

<210> 784
<211> 81
<212> DNA
<213> Homo sapiens

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<221> misc feature
<222> (77)
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<220>
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<222> (78)
<223> n equals a,t,g, or c

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<400> 784
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caaaaaaaaaa aaaaaannng n 81

<210> 785
<211> 541
<212> DNA
<213> Homo sapiens

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<222> (354)
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<220>
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<222> (356)
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<400> 785

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tccctcttcc ctctccctgc ccagccctcc ctctcttctt ctgccggcaa ggcagggacc 120
cacagtggct gcctgcctcc gggaggggag gagagggagg gtgggtgggt ggganggggc 180
cttctctcag ggaatgtgac tctcccaggc cccagaatag ctcttgacc caagcccaag 240
gccagcctg ggacaaagct ccganggtcg gctggccgga gctattttta cctcccgcc 300
cccctgctgg tgccccacc tggacgtctt gctgcagagt ctgacactgg attnnnaaaa 360
nctnaaaang aaccctggta cccaattctg ggncccggnc ctaanctcgg ncccaaccca 420
tcatctgtgg acaatggagt ctggaataaa tgctgtttgt canatcaaca aaaaaaaaaa 480
aaaaggggng gccgcttttag aggattcaaa gcttaagtaa nggtgcatgn gaagttcana 540
a
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541

<210> 786

<211> 433

<212> DNA

<213> Homo sapiens

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<220>

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<220>

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<222> (400)

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<222> (402)

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<221> misc feature

<222> (405)

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<400> 786

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caatgaaggt gaaggccggc gcgctcgccg gccgaggtgg gatccccgagg cctctccagt 120
ccgccgaggg cgcaccaccg gcccgtctcg cccgccgcgc cggggaggtg gagcacgagc 180
gcacgtgtta ggacccgaaa gatggtgaac tatgcctggg cagggcgaaan cagaaggaaa 240
ctctggtgga ggtccgtagc ggtcctgacg tgcaaatecg tcgtccgacc tgggtatagg 300
ggcgaaagac taaatcgaac catcttagta agctggtttc cctccgaaan tttccctcaa 360
gataagcttg gcgctctcgc aagaccccga aggaaccccn gncanggaat ttttatccgg 420
tnaaagcgaa ttg
433

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<210> 787

<211> 527

<212> DNA

<213> Homo sapiens

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<400> 787

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cttggctctc atcttgggtcc cttccaatct gaaacctcgt gcctggctcg tctgccacct 120
acatttctct ttcagctgc tgttttgtaa aaagaaaaag aaaaaagaag cccaaactag 180
tgagagtaat atctaattat ctcatTTTTT gtaggctgtg gataaagaac ttagtcatcc 240
cttcacctc ctactgtgaa gaacagaccc tgggtccac actgaaatcc cctctagtca 300
cccattccca cccccaggg agctgcctcc caggcagggg gtgcagaaaa tgattgatgg 360
gctgggggaa cctggagagc ctgactccg gaagtctcaa ggtgcctcct cctctcctta 420
gctggcccgt tggttttctg agcagggggc tgaactgtga acaagtcaga caaataaagc 480
aagggtctgc ancatctgca atgtcaaaaa aaaaaaaaaa aaaaaaa 527

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<210> 788

<211> 203

<212> DNA

<213> Homo sapiens

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<220>

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<222> (160)

<223> n equals a,t,g, or c

<220>

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<222> (179)

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<220>

<221> misc feature

726

<222> (181)
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<220>
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cagaagagga aaaaaaaact acaaaaaaca aaacattgaa ggttgatatt ttatgtggaa 120
naacatttga attgaattca gaatttttct gaaggtgtan atactttttt ttttttttna 180
ncaaaaaccc tnatttcaaa agg 203

<210> 789
<211> 124
<212> DNA
<213> Homo sapiens

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<222> (70)
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<220>
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<222> (87)
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<220>
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<222> (94)
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<220>
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<222> (113)
<223> n equals a,t,g, or c

<400> 789
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ctgcgcgcgn cccccagtcc cgcaccngtt cggncaggcc taagttagcc ctnaccatgc 120
cggt 124

<210> 790
<211> 293

<212> DNA
<213> Homo sapiens

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<222> (287)

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<400> 790

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ctggcaaaga tggaaccant ggacatccag gtgccattgg accaccaggg cctcgaggta 120
acagnngtga aagnnggatct nagggctccc cagggccacn cagggcaacc agggccctnc 180
tggnacctcc tgggtgcccct ggtccttgct gtggtggtgt tngagccgct gccattgctg 240
ggattgggag gttgaaaaag cttggnccgt tttgnccccg ngtttantgg ggg          293
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<210> 791

<211> 129

<212> DNA

<213> Homo sapiens

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<220>

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<222> (104)

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<220>

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<400> 791
gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaagg gcggccgttt tanaggatcc aagnttacgt acncgngcnt 120
gcaacgtca 129

<210> 792
<211> 267
<212> DNA
<213> Homo sapiens

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ggcgccgcgg ggaggagggc ctgcgcgag tcccgggcgc gttctagggc gccatgctgc 120

730

gggaagtctc gcgcgattag tggggaggtc tcgcggcttc tggctacttg gtggcgaggt 180
gaagagcttc tgcaggtgct gggggcggcg aacgcggcgg gaaagaaaaa aaaaaaaaaa 240
aaaaaanctn ggnaagtatt tttnanan 267

<210> 793

<211> 453

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (347)

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<220>

<221> misc feature

<222> (443)

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gccgtagnag ccggggacag gtcagtcgga gacgagagaa gcggtcagtg ttgtacagtg 120
ttttgggcat gcacgtgata ctcacacagt ggcttctgct caccaacaga tgaagacaga 180
tgcaccaacg aggctgatgg gaaccatcct gtagagggtcc atctgcgttc agaccagac 240
gatgccagag ctatgactgg gcctgcagggt gtggcgccga ggggagatca gccatggagc 300
agccacagga ggaagcccct gaggtccggg aagaggagga gaaagangaa gtggcagaag 360
cagaaggagc cccagagctc aattggggac cacagcatgc acttccttcc agcagctaca 420
cagactctcc cggagctcct cgncaacctt atg 453

<210> 794

<211> 141

<212> DNA

<213> Homo sapiens

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ggngggggcg cgccggtctc ccggagcggg accgggtcgg aggatggncg agaatacga 120
gcgacggtgg tngtggnctg t 141

<210> 795
<211> 167
<212> DNA
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<220>
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<222> (164)

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ngcggcacag cagcagcgac gcagcggcga cantcagagc agggaggccg cnccacctgc 120
gggccggccg gagcgggcag ccccgangcnc cctccccggg cacncgc 167

<210> 796

<211> 331

<212> DNA

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<220>
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<222> (280)
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<220>
<221> misc feature
<222> (328)
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<400> 796
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nctccactca gctaattgna caacatgngn nctacttctc nctnnctttt acannnacag 120
gannnnnggcc nnagttaata tatccngtgt acctcactgt ccaatatgaa aaccgtaaag 180
tgccttatag gnatttgcgt aactaacaca ccctgggttca ttganctnta cttgctgaag 240
nngnaaaaaga caggataagn tttcaatagt ggcataccan atgggacttt tgatgaaatg 300
aatatcaata ttttctgcaa ttccatgngc t 331

<210> 797
<211> 699
<212> DNA
<213> Homo sapiens

<220>
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<222> (404)
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<220>
<221> misc feature
<222> (521)
<223> n equals a,t,g, or c

<220>
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<222> (564)
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<220>
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<222> (589)
<223> n equals a,t,g, or c

<220>
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 <222> (597)
 <223> n equals a,t,g, or c

<220>
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 <222> (598)
 <223> n equals a,t,g, or c

<220>
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 <222> (635)
 <223> n equals a,t,g, or c

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<220>
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 <222> (657)
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<220>
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<400> 797
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 tagaaattga aacctggcgc aatagatata gtaccgcaag ggaaagatga aaaattataa 120
 ccaagcataa tatagcaagg actaaccctt ataccttctg cataatgaat taactagaaa 180
 taactttgca aggagagcca aagctaagac ccccgaaacc agacgagcta cctaagaaca 240
 gctaaaagag cacaccgcgc tatgtagcaa aatagtggga agattttatag gtagaggcga 300
 caaacctacc gagcctggtg atagctgggt gtccaagata gaatcttagt tcaactttaa 360
 atttgccac agaaccctct aaatccctt gtaaatttaa ctgntagtcc aaagaggaac 420
 agctctttgg acactaggaa aaaaccttgt agagagagta aaaaatttaa caccatagtg 480
 aggcctaaaa gcagccacca attaagaaag cgttcaagct naacaccac tacctaaaaa 540
 aatcccaaac atataactga actnctacac ccaattgggc caatctatna ccctatnnaa 600
 gaactaatgg tagtataagt acatgaaaac cattnttctt cgnataagcc ttgcgtnaga 660
 attaaaacac tgaactgnac attaaacagc caatntcta 699

<210> 798
 <211> 138

738

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (115)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (120)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (127)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (128)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (133)
<223> n equals a,t,g, or c

<400> 798
cccggcacag agtcgatgct caataaatgt gtgttgactg catgaatgac ctggaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaanccccc 120
gggggggncc ccnccccc 138

<210> 799
<211> 496
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>
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<222> (414)
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<220>

<221> misc feature

<222> (443)

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<220>

<221> misc feature

<222> (485)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (490)

<223> n equals a,t,g, or c

<400> 799

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agcttgatc tgatcagc actggattgt agaacttggt gctgattttg accttgatt 120
gaagttaact gttccccttg gtatttggtt aataccctgt acatattttt gaggttcaacc 180
tttagtacgt gtggcttggt cacttcgtgg ctaaggtaag aacgtgcttg tggaagacaa 240
gtctgtggct tggtagtct gtgtggccag cagcctctga tctgtgcagg gtattaacgt 300
gtcaaggctg agtggtctgg ggaattctct agaggctggc aagaaccagt tggttttgtc 360
cttgcggggt ctgtcaaggg ttggaaatcc caagccgtag gacccagttc cctnccttaa 420
ccgaagtctt tggccaaaca cnnnggccgt aactggcctt gaggttggaac ggttgcataa 480
gccgnaaagn atcaac 496
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<210> 800

<211> 516

<212> DNA

<213> Homo sapiens

<220>

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<222> (12)

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<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (44)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (80)

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<220>

<221> misc feature

<222> (107)

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<220>

<221> misc feature

<222> (122)

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<220>

<221> misc feature

<222> (149)

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<220>

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<222> (157)

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<220>

<221> misc feature

<222> (164)

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<220>

<221> misc feature

<222> (166)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (169)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (173)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (183)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (188)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (190)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (193)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (199)
<223> n equals a,t,g, or c

<220>
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<222> (208)
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<220>
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<222> (220)
<223> n equals a,t,g, or c

<220>
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<222> (256)
<223> n equals a,t,g, or c

<220>
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<222> (270)
<223> n equals a,t,g, or c

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<220>
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<222> (275)
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<220>
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<222> (296)
<223> n equals a,t,g, or c

<220>
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<222> (335)
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<220>
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<222> (336)
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<220>
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<222> (341)
<223> n equals a,t,g, or c

<220>
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<222> (362)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (370)
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<220>
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<220>
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<222> (500)
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<220>
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<222> (501)
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<400> 800

743

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cacaccaccc cttgccaaan tcattctgct gctccccggg gggagangac cgccggcctc 120
tntactagc ccaccagccc accagggana aaataancca tganangcng cgnccgccac 180
ccngtgtnen cantccccnc ctccccgntt cccttagaan cctgccgcgt cctatctcat 240
gacgctcatg gaaccncttt ctttgatctn ctntntctta tctccccctc tttntngttc 300
taaagaaaat cattttgatg caaggctctg cctggnatca natccgaagt gctcctgcag 360
tnaccctttt cctggcattt ctcttccacg cgacaagtct gctagtgaga tcttgcata 420
ctcactttgt ttccaaaacc cggggctatt ttgcatctca agtttcctgg ggcctgcttc 480
ctgtgtncca cttaagggcn nctgggccaa gactgt 516

```

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<210> 801
<211> 284
<212> DNA
<213> Homo sapiens

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<220>
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<222> (1)
<223> n equals a,t,g, or c

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<220>
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<222> (6)
<223> n equals a,t,g, or c

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<220>
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<222> (12)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

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naagcncccg gngaacttgg ggaaggcneg cctgcaggta ccggtccgga attccccggt 60
cgaccttcgc gtttttatat atatagatat atatatagat atatatagat atatatatag 120
atatatatag atatatatat agatatatat agatatatat agatatatat agatatatatag 180
atatatatag atatatatag atatatagat atatatagat atatatagat atatagatat 240
atatagatat atagatatat atatatctgg ctcatgcatg aaaa 284

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<210> 802
<211> 153
<212> DNA
<213> Homo sapiens

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<220>
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<222> (46)
<223> n equals a,t,g, or c

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<220>
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<222> (92)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (119)
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<220>
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<222> (134)
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<220>
<221> misc feature
<222> (140)
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<220>
<221> misc feature
<222> (143)
<223> n equals a,t,g, or c

<400> 802
cggacggctg tgtagcgcgt ggggtgtaaga cttgcccaag tcccanagca cctcacctcc 60
cgaagccacc atccccaccc tgtcttcac anccgcctga aagccacaat gagaatgant 120
cacactgagg cctngatgtn ctntaatcac ttg 153

<210> 803
<211> 383
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (271)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (301)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c

745

<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

<400> 803
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attgtgcctt tattttatga gcccagttt tctgggctta gtttaaaaaa aaaatcaagt 120
ctaaacattg catttagaaa gcttttggtc ttggataaaa agtcatacac tttaaaaaaa 180
aaaaaaactt tttccaggaa aatatattga aatcatgctg ctgagcctct attttctttc 240
tttgatggtt ttggattcag tattccttta nccataaatt ttagcattt aaaaattcac 300
nggatggtac attaagccaa taaactggct ttaatggatt acccaaaaaa aaaaaaaaaa 360
aaaggggggn cgcnnccagag ggn 383

<210> 804
<211> 509
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (94)
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<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c

<220>
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<222> (399)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (434)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (478)
<223> n equals a,t,g, or c

<220>
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<222> (501)
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<220>
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<222> (504)
<223> n equals a,t,g, or c

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ctctggagct cagcacagcc ctggagcacc agnggtacat tacttttctt gaagacctca 120
agagttttgt caagagccag tagagcagac agatgctgaa agccatagtt tcatggcagg 180
ctttggccag tgaacaaatc ctactctgaa gctagacatg tgctttgaaa tgattatcat 240
cctaatatca tgggggaaaa aataccagat tttaaattata tgttttgtgc tctcatttat 300
ttatcatttt tttctgtaca aatctattat ttctagggtt ttgtattaca tgatagacat 360
aaattgggtt atctcctcca ggcagtttgt cttttcnant nctccccctt caaccgtgtc 420
acaaagacca gacngtgtcg ggaaagtttt ttttctccgt attgttaaag gttccatnca 480
attaggttta ataaaggctt nttntccag 509

<210> 805
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (648)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (668)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (718)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (736)

<223> n equals a,t,g, or c

<400> 805

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ncaaaccac tccaccttac taccagacaa ccttagccaa accatttacc caaataaagt 60
ataggcgata gaaattgaaa cctggcgcaa tagatatagt accgcaaggg aaagatgaaa 120
aattataacc aagcataata tagcaaggac taacccttat accttctgca taatgaatta 180
actagaaata actttgcaag gagagccaaa gctaagaccc ccgaaaccag acgagctacc 240
taagaacagc taaaagagca caccctgcta tgtagcaaaa tagtggaag atttataggt 300
agaggcgaca aacctaccga gcctggtgat agctggttgt ccaagataga atcttagttc 360
aactttaaat ttgcccacag aacctcttaa atccccctgt aaatttaact gttagtccaa 420
agaggaacag ctctttggac actaggaaaa aacctgttag agagagtaaa aaatttaaca 480
cccatagtag gcctaaaagc agccaccaat taagaaagcg ttcaagctca acaccacta 540
cctaaaaaat cccaaacata taactgaact cctcacaccc aattggacca atctatcacc 600
ctatagaaga actaatggta gtataagtaa catgaaaaca ttctcctncg cataagcctg 660
cgtcaganta aaacctgact gacaattaac agcccaattc tacaatcaaa caacaagnca 720
ttattaccct tactgncaac ccaaccaggc atg 753
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<210> 806

<211> 404

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

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<220>

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<222> (352)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (396)

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<220>

<221> misc feature

<222> (398)

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<220>

<221> misc feature

<222> (403)

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<400> 806

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aaactaaagc tgaagaggta ctttccataa atacctocca ctgattgaat cagtgtcttt 120
aaagaaattt ctcaatcctt cagccggtga tagcacgttc ttaatgtctc tttttattgc 180
ctgtaatggt attgcagatc cacatctctc gctcaactgt taatgtctca acctccagag 240
gcacccacc cagcacactg tcagtaaagg ggcagaatga aacagtgaga gttaagggta 300
caggaagaaa atttgcatgt ttgcaagtga ctagaatcag atagtaagtg gnggtgggtt 360
ttttttttta atcattatga aanagtggga agcttngnag gtna 404
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<210> 807

<211> 428

<212> DNA

<213> Homo sapiens

<220>

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (17)

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<222> (20)

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<222> (33)

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<220>

<221> misc feature

<222> (89)

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<220>

<221> misc feature

<222> (164)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (198)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (266)
<223> n equals a,t,g, or c

<220>
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<222> (283)
<223> n equals a,t,g, or c

<220>
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<222> (400)
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<220>
<221> misc feature
<222> (413)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (417)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (426)
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<400> 807

750

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aggcagatgc tcctctggtg ggaggggtgnt ggcccggcaa gattgaagga tgtgcagggc 120
ttcctctcag agccgccc aa actgccttga tgtgtggagg ggangcaaga tgggtaaggg 180
ctcaggaagt tgctccanga acagtagctg atganctgcc cagagtgcct ggctccagcc 240
tgtacccttg gtatgccttg aacatntggt ttccccaccc aantgcggct aagtctcttt 300
ttccttggat cagccaggcg aaattggggc ttgacaagg aattttctaa ggaaaccttg 360
ttaaccagac aaaacacaac cagggttaca ggggttatgn aagggttttc tgncccngga 420
ggnttnag 428

<210> 808

<211> 403

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (85)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (257)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (258)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (261)

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<220>

<221> misc feature

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<220>
 <221> misc feature
 <222> (288)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (342)
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<220>
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 <222> (346)
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<220>
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 <222> (349)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (365)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (375)
 <223> n equals a,t,g, or c

<400> 808
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 cnccgctccg gggacagtgc caggngggga gtttgactgg ggcggtacac ctgtcaaacg 120
 gtaacgcagg tgtcctaagg cgagctcagg gaggacagaa acctcccgtg gagcagaagg 180
 gcaaaagctc gcttgatctt cattttcagt acgaatacag accgtgaaag ccggggcctca 240
 cgatcctcct gaccttnncg ntttncagcn ggaggtgtca gaaaantnac cacagggata 300
 actcgcttgt cgcggccaag cgttcatagc gacgtcgctt tnccangtnc gatgtcggat 360
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<210> 809
<211> 583
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 ccccatagtg attgagtctt caaaaccacc gattctgaga gcaaggaaga ttttggaaga 180
 aaatctgact gtggattatg acaaagatta tcttttttct taagtaatct atttagatcg 240
 ggctgactgt acaaagact cctggaaaaa actcttcacc tagtctagaa taagggagggt 300
 gggagaatga tgacttaccc tgaagtcctt cccttgactg cccgcactgg ggctgttct 360
 gtgccctggg agcatnntgc ccagctaagt ggggttcagg cagtgggcag ctttcccaat 420
 nantcgattt ccatnccagn gganttaaaa ccagttggcc aaatttccaa gnccttgnaa 480
 ntaaggantc catttaccaa cccgcggttt tgtggtcagt gcccgaaggg ggtaggttga 540
 agggggccta acaaacatgg aagtnggggg nanaagggat nan 583

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 <212> DNA
 <213> Homo sapiens

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gtatacagat gaggggtgtcc gctgctgctt tccttcggaa tccagtgttt ccacagagat 120
tancctgtan cttatatattg acattcttca ctgtctgttg ttnancnacc gtagcttttt 180
accgttcaact tccccctcca actatgtcca gatgtgcagg ctccctccnct ctggactttc 240
tccaaaggca ctgaccctng gnetnnactt tg 272

<210> 811
<211> 300
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cagatctttt taaaaagata cttctgtaac ttaagaaacc tgggcattta aatcatattt 120
tgtcttttagg taaaagcttt ggtttggtgt cgtgttttgt ttgtttcact tgtttccctc 180
ccagcccaa accttttggt ctctccgtga acttaccttt ccctttttct ttctcttttt 240
tttttttgga anattaatng tttncaataa aatttncatn gccattaaaa aaaaaaaaaa 300

<210> 812

<211> 478

<212> DNA

<213> Homo sapiens

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<222> (325)

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<400> 812

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gaaattgaaa cctggcgcaa tagatatagt accgcaaggg aaagatgaaa aattatagcc 120
aagcataata tagcaaggac taacccttat accttctgca taatgaatta actagaaata 180
actttgcaag gagagccaaa gctaagaccc ccgaaaccag acgagctacc tnagaacagc 240
tgaaagagca caccctgcta ttagcaaaa tagtggaag atttataggt tgangcgaca 300
aacctaccga gcctgggtgat agctngttgt tccaanattg aatccttagt tccactttta 360
atttggtccc aaaaaccccc taattcccct tgggttaattt taactgttng tccccaaaaa 420
ggaaccngct ctttgggacc cttanggaaa aaaaccttgn ttaaaaanaa ttaaaaaa 478
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<210> 813

<211> 63

<212> DNA

<213> Homo sapiens

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<220>

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tga
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63

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gagggtcctg ctg 73

<210> 815
<211> 102
<212> DNA
<213> Homo sapiens

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<220>
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tctcctttgc ctggccggga gggccttggc ngncctcan cn 102

<210> 816
<211> 379
<212> DNA
<213> Homo sapiens

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aggcgggcat aacacagcaa gacgagaaga ccctatggag ctttaattta ttaatgcaaa 120
cagtacctaa caaaccaca ggtcctaaac taccaaacct gcattaaaaa tttcggttg 180

ggcgacctcg gagcagaacc caacctccga gcagtacatg ctaagacttc accagtcaaa 240
gcgaactact atactcaatt gatccaataa cttgaccaac ggaacaagtt accctaggga 300
taacagcgca atcctattct agagtccata tcaacaatan ggttttacnac ctcgatgnnn 360
ggatcaggac attccaatg 379

<210> 817
<211> 500
<212> DNA
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<400> 817

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ctccccacgc cccgccaaaga agcgacangg ccccaagncc cgagccggcc gtcaagggga 180
ccggngtggtc tngggttgct naagaaagcg gaatncgggg ggcattcccag ccaagaangn 240
cccggttggtc naggagaanc tngggaacgc cggcctcctt ggncgctgaa ttncggaaca 300
ttttggaacc ggattccaga ggaacaaagg gcccngggnc cttgnttaan aatncggggg 360
ccngnaaang ttncctcttg gggntttttg gaanaanaac ctgggaaaga aagcanctta 420
aggggggggn attttcgggg gaaancgtta tttttaatca aagctaaatt ggggattttt 480
tttncaaaaa ggaaaggaaa                    500
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<210> 818

<211> 329

<212> DNA

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<220>

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<222> (209)

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<222> (239)

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ctcactaatg ggaacanaag ctggagctcc accgngtagg cggncggtct agaactagtg 120
tgatcccccg ggctgcagga attcggcncg agaggaaana gaaaccgtct gaactatgct 180
gnnngccatc atnctnggcc tcatcgcnnt tccatcccta cgcattgctt acatagcana 240
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acgagtacac ccgaccaccn ggtggacta 329

<210> 819
<211> 648
<212> DNA
<213> Homo sapiens

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attacaaata aacagttggt acttagcaag acctgaaaat atgtctgcag gtttctcctt 180
gaagcaaattg tgtgggatca ttgcatttcc agaaatctgc ctcccttcacc ctccgttgac 240
agtatatgtc atgcctcact ttcttctagc tgagctttaa atcattagag cttaaattgt 300
cagatcggtc attgcctttc caggggttatt tagtaaagtt tggtgaaaac aaaaacgcct 360
tttcttggtt cttttttcag ttattttgaa ggccagcatc ctgattaaat gctgacacat 420
taatgaatga ccagcaacag ctttcagctc ttaaaaagac acttatattt gaatttacat 480
gctgggtacc tgggtccaat ggtggcaaaa ggccactntt cattaaaagg ggtcctccat 540
ttcntanccc caaggacttc ctcanttttc aaattgggaa gggnacctaa aaggggggtac 600
aattaaaacc ctggggtaaa gggggnaaaa aaaaaaaaaa aaaaaaaaaa 648

<210> 820
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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (284)
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<220>
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<220>
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 taaccaagca taatatagca aggactaacc cctatacctt ctgcataatg aattaactag 180
 aaataacttt gcaaggagag ccaaagctaa aacccccaat aaaccttgaa cagtgaanaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaacctcgag gtcnacggta tcnataacct 300
 tgatatcnaa ttcggcacna gcaacctca ttccccaacc cacgccggag gctgcgcctg 360
 caggacctgn ctgaccgatt ggtggatcct ctgaanatga acacgactca ccaactgctca 420
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<210> 821
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<220>
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<220>
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agaaggaagg ggaaacatac atttattcat gccagtctgt tgcattgcagg ctttttggct 180
tcctaccttg caacaaaata attgcaccaa ctccttagtg ccgattccgc ccacagagag 240
tcctggagcc acagtctttt ttgctttgca ttgtaaggag agggactaaa gtgctagaga 300
ctatgtcgct ttcttgagct aacgagagcg ctcgtgaact ggantcaact gctttcaggg 360
aaaaagaaaa aaaaaaaaaa aaanccggg ggggggcccg gtaaccatt tccccctana 420
gnggnggggt tt 432

<210> 822
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<212> DNA
<213> Homo sapiens

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<222> (367)
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<222> (382)
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<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (427)
<223> n equals a,t,g, or c

<400> 822
aagtctcttc agtgactcg ctccctctct ggctaaggca tgcattagcc actacacaag 60
tcattagtga aagtgtctt ttatgtcctc ccagcagaca gacatcaagg atgagttaac 120
caggagacta ctctgtgga ctgtggagct ctggaaggct tgggtgggagt gaatttgccc 180
acaccttaca attgtggcag gatccagaag agcctgtctt tttatatcca ttccttggat 240
gtcattgggc ctctcccacc gatttcatta cggtgccacg catccatggg atctggggta 300
gtccggaaaa acaaaaggag ggnagacagc ctggtaatgg ataagatcct taccacagtt 360
ttcccanggg gaatacctta tnaanccttc aacttttttt tttcccttaa gaattaaaac 420
ggggnana 428

<210> 823
<211> 100
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (63)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (71)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (78)

<223> n equals a,t,g, or c

<400> 823

ctcagctcct gggggctcct gctactctgg gntcccgagg gtgccaaaat gtgncatcca 60
agntgaccca ntctccgncc ctccctgtct gcagctggta 100

<210> 824

<211> 173

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (79)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (111)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (117)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (156)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (165)

<223> n equals a,t,g, or c

<400> 824

cggacgcgtg ggcggacgcg tgggcggacg cgtgggccga gaaccacagg tgtacaccct 60
gccccatcc cgggaggana tgaccaagaa acagtcagct gaactgcctg nttctanagg 120
tttctatccc acgaaatccc cttgaattgg gaaacnattg ggcanccgaa aaa 173

<210> 825

<211> 341

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (283)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (313)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (317)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c

<400> 825
cccaaacc ca ctccacctta ctaccagaca accttagcca aaccatttac ccaaataaag 60
tataggcgat agaaattgaa acctggcgca atagatatag taccgcaagg ggaaagatga 120
aaaattataa ccaagcataa tatagcaagg actaaccctt ataccttctg cataatgaat 180
taactagaaa taactttgca aggagagcca aagctaagac ccccgaaacc agaacgagct 240
accttagaac agcttaaaga gcacaccctt ctatttttgc canaatagtg ggaaagattt 300
ataggttgaa ggnaacnaac ctaccgagcc tggtnaatnc t 341

<210> 826
<211> 492
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (416)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (446)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (480)

<223> n equals a,t,g, or c

<400> 826

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gcaaaccac tccaccttac taccagacaa ccttagccaa accatttacc caaataaagt 60
ataggcgata gaaattgaaa cctggcgcaa tagatatagt accgcaaggg aaagatgaaa 120
aattataacc aagcataata tagcaaggac taacccttat accttctgca taatgaatta 180
actagaaata actttgcaag gagagccaaa gctaagaccc ccgaaaccag acgagctacc 240
taagaacagc taaaagagca caccctgtcta tgtagcaaaa tagtgggaag atttataggt 300
agaggcgaca aacctaccga gcctgggtgat agctggntgt ccaagataga atcttagttc 360
aactttaaat ttgcccacag aacctcttaa atccccttgt aaatttaact gttagnccaa 420
agaggaacaa gctctttgga cactangaaa aaaccttgta tagagaggaa naaanatttn 480
acaaccata ct 492
```

<210> 827

<211> 290

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (230)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (250)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (262)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (264)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (290)

<223> n equals a,t,g, or c

<400> 827

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ggtcgtgctc tcccgggccc ggctccgagcc gcgacgggcg aggggcccgc gttcgtggng 60
aacgggaccg tccttctcgc tccgccccgc ggggggtcccc tcgtctctcc tctccccgcc 120
cgccggcggt gcgtgtggga aggcgtgggg tgcggacccc ggcccgcacct cgccgtcccc 180
ccgcgcgcct tctgcgtcgc ggggtgcgggc cggcgggggtc ctctgacgcn gcagacagcc 240
ctcgtctgtn cctccagtgg angncgactt gcgggcccgtc ctccctacgan          290
```

<210> 828

<211> 420

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (149)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (334)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (382)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (396)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (405)

<223> n equals a,t,g, or c

<400> 828

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gggtcgaccc acgcgtccgg cagcacggaa aaagaaggtc tcctccacga agcgacactg 60
agcgtgcacc aagggcttgg tctgcggggg ccttggagct cctgctcttc tcccgcacct 120
ccatggatgc actgctgccg agcagagcng cctctgccag gccccgccct gggattccta 180
gagactagct tcagttttgc tatttttttt aagtgggaga aggggtgggca gttatcactg 240
gggaagagag gaccggccac ctgtccagca tgggctccag agccttcctc tctcacaggg 300
cagagtcttg tcggcaaggc agcctcctgg ccantttctc tgctcatgtt tctggtttagc 360
agagttcaga gccaatgtt tnacttcttg gttgtncocg tgnangaagc ctttcaaaac 420
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<210> 829

<211> 298

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (109)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (125)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (129)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (171)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (181)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (191)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (268)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (269)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c

<400> 829
ttcagaaaaa acaatagtnn tgtgcctctn tcttctcaaa caatggatga cacaanncta 60
tgagagtgta caaaatgggtg acaggtagct ggggacctag gctatctcnc catgaagggtt 120
gttcngctna ttgtatatct gtgtatgtag tgtaactata ttgtacaatg ngaagactgt 180
naactactat ntagggttgt tgcagattga aatttagttg tctcattggc tgtctgagga 240

agtgtggact tctatatata gatctannnt gaaaactgct ncatgantga aaaccaca 298

<210> 830

<211> 516

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (408)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (477)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (497)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (513)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (515)

<223> n equals a,t,g, or c

<400> 830

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ncggnaactn ctcactatag ntgaaagctg gtacncctgc aggtaccggt ccggaattcc 60
cgggggcatc cccttgcccc caagagaccc gacgcttgct tcatggccta cacgttcgag 120
agagagtctt cgggagagga ggaggagtag ggccgcctcg gggctgggca tccggcccct 180
ggggccaccc cttgtcagcc ggggtgggtag gaaccgtaga ctgcctcatc tcgcctgggt 240
ttgtccgcat gttgtaatcg tgcaaataaa cgctcactcc gaattagcgg tgtatttctt 300
gaagttaaat attgtgtttg tgatactgaa gtatttgctt taattctaaa taaaaattta 360
tattttactt ttttattgct ggtttaagat gattcagatt atccttgnac tttgaggaga 420
agtttcttat ttggagcttt tggaaacagc ttaagctttt aacttggaag gatagnatt 480
aatccccctt attggtntcc aaaagccaat aangng 516

```

<210> 831

<211> 636

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (414)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (530)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (617)

<223> n equals a,t,g, or c

<400> 831

```

ggaaaaaaat gagttccatt taaaattttg gcatatggca ttttctaact taggaagcca 60
caatgttctt ggcccatcat gacattgggt agcattaact gtaagtgttg tgcttccaaa 120
tcactttttg gtttttaaga atttcttgat actcttatag cctgccttca attttgatcc 180

```

```

tttattcttt ctatttgtca ggtgcacaag attaccttcc tgttttagcc ttctgtcttg 240
tcaccaacca ttcttacttg gtggccatgt acttggaata aggccgcatg atctttcttg 300
ctccactcag tgtctaaggc accctgcttc ctttgcttgc atcccacaga ctatttccct 360
cctcctatct actgcagcaa atctctcctt agttgatgag actgtgttta tctnccttta 420
aaaccctacc tatcctgaat ggtctgtcat tgnctgcctt taaaatcctt cctctttctt 480
cctcctctat tctctaaata atgatggggc ttaagttata cccaaagctn actttacaaa 540
atatttcttc aagactttgc agaaacacca acaaaatgcc atttaaaaaa ggggattttc 600
tttaaaggaa ctctaanaca ggcaagggtc tgatgt 636

```

<210> 832

<211> 466

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (421)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (443)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (446)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (466)

<223> n equals a,t,g, or c

<400> 832

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gatcagatta tgagttactg tttaaaagaa aaatgctgtt tattcatgct gaggtgattc 60
agtccctccc ttcttacaga agtatcttaa ttcacccccc actagaaatg cagcatcttt 120
gtggacgtct ttttcacaag cctccaaggc tccttagatt gggtcgttac taaaagtaca 180
ttaaaacact cttgtttatc gaagtatatt gatgtattct aaagctagta aacttcccta 240
acgtttaatt gccctacaga tgcttctctt gctgtgggtt ttcttttggt agtggctctga 300
aataattatt ttctgtttct attaatatcat aagtgtattt tgcacaaaaa aattaacctg 360
gtcaaatagt gattacaaaa atatatatta ataactcttg gcaaattttt gccatttata 420
ngaaaacatt ttttaacccc ggntangttc tanatttatt ctttcn 466

```

<210> 833

<211> 405

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (237)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (278)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c

<400> 833
ttttaattca acccagccat gcaatgccaa ataatagaat tgctccctac cagctgaaca 60
gggaggagtc tgtgcagttt ctgacacttg ttgttgaaca tggctaaata caatgggtat 120
cgctgagact aagttgtaaa aaattaacaa atgtgctgct tgggttaaaat ggctacactc 180
atctgactca ttctttattc tatttttagtt ggtttgtatc ttgcctaagg tgcgtantcc 240
aactcttggg attaccctcc taatagtcac actagtantc atactccctg gtgttatgta 300
ttctctaaaa gctttaaatg tctgcattgc aaccngccat caaatattga atgggctctc 360
ttttggctgg aattacaaac tcaaaaaatg tttctcagga aaaaa 405

<210> 834
<211> 402
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (277)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (332)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (400)
<223> n equals a,t,g, or c

<400> 834
gcaaaccac aggtcctaaa ctaccaaacc tgcattaaaa atttcggttg gggcgacctc 60
ggagcagaac ccaacctccg agcagtacat gctaagactt caccagtcaa agcgaactac 120
tataactcaat tgatccaata acttgaccaa cggaacaagt taccctaggg ataacagcgc 180
aatcctattc tagagtccat atcaacaata gggtttacga cctcgatggt ggatcaggac 240
atcccgatgg tgcagccgct attaaagggt cgtttgntca acgattaaag tcctacgtga 300
tctgagttca gaccggagta atccaggtcg gnttctatct acttcaaatt cctncctgna 360
cgaaaggaca agagaaataa gggctacttn acaaagcgcn tt 402

<210> 835
<211> 121
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (110)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (117)
<223> n equals a,t,g, or c

<400> 835
nttnaaaaaa aaaaaaaaaa aaaaaaaaaa aagaaaaaan aaaaaaaaaa aaaaaaaaaa 60
aaaaagggcg gccgttntaa aggatccaag cttacgtacn cgtgcatgcn acgtcanagc 120
t 121

<210> 836
<211> 411
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (357)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (386)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c

<400> 836
agtaagcctg ccagacacgc tgtggcggtt gcctgaagct agtgagtcgc ggcgcgcgc 60
acttgtggtt gggtcagtgc cgcgcgccgc tcggtcggtt ccgcgaggcg ctggtggcct 120
tcaggctgga cggcgcgggt cagccctggt ttgccggctt ctgggtcttt gaacagccgc 180
gatgtcgatc ttcaccccca ccaaccagat ccgcctaacc aatgtggccg tggtagcgat 240
gaagcgcgcc aggaagcgtc tcgaaatcgc ttgctacaga aacaagtcgt cggctggcgg 300
agggcttttg aaaaagactt gatgaatttt gcagacccan caangtttgt aaagttacca 360

aagtcagttt ccaaaaggaa attcancagg ggtttggaat atgccaanga a 411

<210> 837

<211> 386

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (381)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (384)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

<400> 837

gcggcagctc agcaagtggg ggaccaggcc acagaggcgg ggcagaaagc catggaccag 60
 ctggccaaga ccacccagga aaccatcgac aagactgcta accaggcctc tgacaccttc 120
 tctgggatcg ggaaaaaatt cggcctcctg aaatgacagc agggagactt gggtcggcct 180
 cctgaaatga tagcagggag acttggtgga ccccccttc aggcgccatc tagcacagcc 240
 tggccctgat ctccgggcag ccaccacctc ctcggtctgc cccctcatta aaattcacgt 300
 tccccaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
 aaaaaaaaaa aaaaaaaaaa ngnnnn 386

<210> 838

<211> 124

<212> DNA

<213> Homo sapiens

<400> 838

gctttcaata gatcgagcgg agggagctgc tctgctacgt acgaaacccc gaccagaag 60
 caggtcgtct acgaatggtt tagcgccagg ttccccacga acgtgcggtg cgtgacgggc 120
 gagg 124

<210> 839
<211> 270
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (107)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (130)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (175)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (260)
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<220>
<221> misc feature
<222> (261)
<223> n equals a,t,g, or c

<400> 839

atctggttgt gggtacaatg aaaatnagaa gcattattga tggattcgca taagcncaat 60
gtgatgtcct gcgccgttct gccccctctc ccttccaggg tgaggggctg gggtgagggg 120
taatgttcgn accagtgtctg gctgttcccc tcaccctaac cctctcccca aaggncgnag 180
gggcccgggt acccaattcg ccctatagtg agtcgtatta caattcactg gccgtcgttt 240
tacaagacgn agggaggagn ntgatgaaaa 270

<210> 840

<211> 430

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (262)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (263)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (348)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (369)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (390)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (395)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (409)

<223> n equals a,t,g, or c

<400> 840

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ctctacatca ccgccccgac cttagctctc accatcgctc ttctactatg aacccccctc 60
cccataccca accccctggt caacctcaac ctaggcctcc tatttattct agccacctct 120
agcctagccg tttactcaat cctctgatca gggtagcat caaactcaaa ctacgccctg 180
atcggcgcac tgcgagcagt agcccaaacn atctcatatg aagtcaccct agccatcatt 240
cctactatca acattactaa tnngttggt cctttaacct ctccaccctt atcacaacac 300
aagaacactc ctgaatatcc tgccatcata accctttggc catatatnat tatcttccac 360
actagggana acaacgaacc cccttcgaan cttgngaaag ggaatttcna ataattctca 420
ggttcaaatt                                     430
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<210> 841

<211> 650

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (519)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (555)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (564)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (573)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (589)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (634)

<223> n equals a,t,g, or c

<400> 841

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gccgtcatct actctacat ctttgcaggc aactcatca cagcgctaag ctgcactga 60
ttttttacct gagtaggctt agaaataaac atgctagctt ttattccagt tctaaccaaa 120
aaaataaacc ctggttccac agaagctgcc atcaagtatt tcctcacgca agcaaccgca 180
tcataatcc ttctaatagc tctctcttc aacaatatac tctccggaca atgaaccata 240
accaataata ccaatcaata ctcatcatta ataatacataa tggctatagc aataaaaacta 300
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786

```

ggaatagccc cctttcactt ctgagtccca gaggttacct aaggcacccc tctgacatcc 360
ggcctgcttc ttctcacatg acaaaaacta gcccctatct caatcatata ccaaattctt 420
ccctcactag acgtaagcct tctcctcact ctctcaatct tatccatcat agtaggcagt 480
tgagggtgga ttaaaccaaa acccagctac gcaaaatcnt agcatacttc ctcaattacc 540
cacataggat gaatnaatag cagnttctac cgnacaaccc ttacataanc atttcttaaa 600
ttaactaatt atattaatcc taactactac ggantctact actaacttaa 650

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<210> 842

<211> 509

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (438)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (455)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (462)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (468)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (482)

<223> n equals a,t,g, or c

<400> 842

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gcctgtgtct gctaaaaaag aaaagaaagt ttcttgcattg ttcatctctg atgggcgggt 60
gtctgtctct gctcgaattg acagaaaagg attctgtgaa ggtgatgaga tttccatcca 120
tgctgacttt gagaatacat gttcccgaat tgtggtcccc aaagctgccca ttgtggcccc 180
ccacacttac cttgccaatg gccagaccaa ggtgctgact cagaagttgt catcagtcag 240
aggcaatcat attatctcag ggacatgccc atcatggcgt ggcaagagcc ttcgggttca 300
gaagatcagg ccttctatcc tgggctgcaa catccttcga gttgaatatt ccttactgat 360
ctatgttagc gttcctggat ccaagaaggc catccttgac ctgcccctgg taattggcag 420
cagatcaggc ctaagcanca gaacatccag ctggncagcc cnaaccanct ctgaagatga 480
gntgggtaga tctgaacatc ctgataccc 509

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<210> 843

<211> 158

<212> PRT

787

<213> Homo sapiens

<400> 843

Lys Arg Asp Trp Val Ile Pro Pro Ile Ser Cys Pro Glu Asn Glu Lys
1 5 10 15

Gly Pro Phe Pro Lys Asn Leu Val Gln Ile Lys Ser Asn Lys Asp Lys
20 25 30

Glu Gly Lys Val Phe Tyr Ser Ile Thr Gly Gln Gly Ala Asp Thr Pro
35 40 45

Pro Val Gly Val Phe Ile Ile Glu Arg Glu Thr Gly Trp Leu Lys Val
50 55 60

Thr Glu Pro Leu Asp Arg Glu Arg Ile Ala Thr Tyr Thr Leu Phe Ser
65 70 75 80

His Ala Val Ser Ser Asn Gly Asn Ala Val Glu Asp Pro Met Glu Ile
85 90 95

Leu Ile Thr Val Thr Asp Gln Asn Asp Asn Lys Pro Glu Phe Thr Gln
100 105 110

Glu Val Phe Lys Gly Ser Val Met Glu Gly Ala Leu Pro Gly Thr Ser
115 120 125

Val Met Glu Val Thr Ala Thr Asp Ala Asp Asp Gly Cys Gly Thr Pro
130 135 140

Thr Met Pro Pro Ser Leu Thr Pro Ser Ser Ala Gln Asp Pro
145 150 155

<210> 844

<211> 601

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
 <222> (103)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (106)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (152)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (358)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (383)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 844
 Thr Glu Leu Leu Lys Ser Ala Ala Arg His Gly Thr Ala Glu Ser Ala
 1 5 10 15
 Pro Trp Pro Arg Gly Gln Gly Trp Gln Gln Trp Gln Gln Gln Trp Arg
 20 25 30
 Arg Arg Trp Xaa Ser Trp Arg Lys Asp Arg Ala Arg Thr Arg Arg Gln
 35 40 45
 Glu Glu Leu Ala Leu Ser Gln Glu Pro Lys Ser Ser Ser Arg Gly Xaa
 50 55 60
 Ser Pro Gly Ala Ser Pro Ala Ser Pro Thr Ser Gln Gln Phe Cys Cys
 65 70 75 80
 Phe Arg Leu Asp Gln Val Ile His Ser Asn Pro Ala Gly Ile Gln Gln
 85 90 95
 Ala Leu Ala Gln Leu Ser Xaa Arg Gln Xaa Ser Val Thr Ala Pro Gly
 100 105 110
 Gly His Pro Arg His Lys Pro Gly Pro Pro Gln Ala Pro Gln Gly Pro
 115 120 125
 Ser Pro Arg Pro Pro Thr Arg Tyr Glu Pro Gln Arg Val Asn Ser Gly
 130 135 140

Leu Ser Ser Asp Pro His Phe Xaa Glu Pro Gly Pro Met Val Arg Gly
 145 150 155 160
 Val Gly Gly Thr Pro Arg Asp Ser Ala Gly Val Ser Pro Phe Pro Pro
 165 170 175
 Lys Arg Arg Glu Arg Pro Pro Arg Lys Pro Glu Leu Leu Gln Glu Glu
 180 185 190
 Ser Leu Pro Pro Pro His Ser Ser Gly Phe Leu Gly Ser Lys Pro Glu
 195 200 205
 Gly Pro Gly Pro Gln Ala Glu Ser Arg Asp Thr Gly Thr Glu Ala Leu
 210 215 220
 Thr Pro His Ile Trp Asn Arg Leu His Thr Ala Thr Ser Arg Lys Ser
 225 230 235 240
 Tyr Arg Pro Ser Ser Met Glu Pro Trp Met Glu Pro Leu Ser Pro Phe
 245 250 255
 Glu Asp Val Ala Gly Thr Glu Met Ser Gln Ser Asp Ser Gly Val Asp
 260 265 270
 Leu Ser Gly Asp Ser Gln Val Ser Ser Gly Pro Cys Ser Gln Arg Ser
 275 280 285
 Ser Pro Asp Gly Gly Leu Lys Gly Ala Ala Glu Gly Pro Pro Lys Arg
 290 295 300
 Pro Gly Gly Ser Ser Pro Leu Asn Ala Val Pro Cys Glu Gly Pro Pro
 305 310 315 320
 Gly Ser Glu Pro Pro Arg Arg Pro Pro Pro Ala Pro His Asp Gly Asp
 325 330 335
 Arg Lys Glu Leu Pro Arg Glu Gln Pro Leu Pro Pro Gly Pro Ile Gly
 340 345 350
 Thr Glu Arg Ser Gln Xaa Thr Asp Arg Gly Thr Glu Pro Gly Pro Ile
 355 360 365
 Arg Pro Ser His Arg Pro Gly Pro Pro Val Gln Phe Gly Thr Xaa Asp
 370 375 380
 Lys Asp Ser Asp Leu Arg Leu Val Val Gly Asp Ser Leu Lys Ala Glu
 385 390 395 400
 Lys Glu Leu Thr Ala Ser Val Thr Glu Ala Ile Pro Val Ser Arg Asp
 405 410 415

Trp Glu Leu Leu Pro Ser Ala Ala Ala Ser Ala Glu Pro Gln Ser Lys
420 425 430

Asn Leu Asp Ser Gly His Cys Val Pro Glu Pro Ser Ser Ser Gly Gln
435 440 445

Arg Leu Tyr Pro Glu Val Phe Tyr Gly Ser Ala Gly Pro Ser Ser Ser
450 455 460

Gln Ile Ser Gly Gly Ala Met Asp Ser Gln Leu His Pro Asn Ser Gly
465 470 475 480

Gly Phe Arg Pro Gly Thr Pro Ser Leu His Pro Tyr Arg Ser Gln Pro
485 490 495

Leu Tyr Leu Pro Pro Gly Pro Ala Pro Pro Ser Ala Leu Leu Ser Gly
500 505 510

Val Ala Leu Lys Gly Gln Phe Leu Asp Phe Ser Thr Met Gln Ala Thr
515 520 525

Glu Leu Gly Lys Leu Pro Ala Gly Gly Val Leu Tyr Pro Pro Pro Ser
530 535 540

Phe Leu Tyr Ser Pro Ala Phe Cys Pro Ser Pro Leu Pro Asp Thr Ser
545 550 555 560

Leu Leu Gln Val Arg Gln Asp Leu Pro Ser Pro Ser Asp Phe Tyr Ser
565 570 575

Thr Pro Leu Gln Pro Gly Gly Gln Ser Gly Phe Leu Pro Ser Gly Ala
580 585 590

Pro Ala Ser Arg Cys Phe Tyr Pro Trp
595 600

<210> 845

<211> 67

<212> PRT

<213> Homo sapiens

<400> 845

Thr Gln Lys Thr Ser Ser Leu Leu Pro Ala Leu Ser Leu Gln Leu Pro
1 5 10 15

Leu Leu Thr Arg Phe Ser Ile Met Cys Ser Val Lys Glu Glu Phe Trp
20 25 30

791

Arg Val Gln Ser Ile Ile Thr Glu Leu Val Leu Lys Gly Glu Phe Gly
 35 40 45

Val Glu Glu Ala Met Lys Leu Ile Thr Gly Thr Glu Ala Lys Tyr Lys
 50 55 60

Ser Ile Asp
 65

<210> 846

<211> 146

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 846

Ser Gln Gly Pro Asp His Pro Ser Ser Gln Leu Gln Pro Leu Asn Xaa
 1 5 10 15

Ser Leu Ser His Leu Leu Val Pro Cys Leu Ser Ile Met Ser Leu Leu
 20 25 30

Asn Lys Pro Lys Ser Glu Met Thr Pro Glu Glu Leu Gln Lys Arg Glu
 35 40 45

Glu Glu Glu Phe Asn Thr Gly Pro Leu Ser Val Leu Thr Gln Ser Val
 50 55 60

Lys Asn Asn Thr Gln Val Leu Ile Asn Cys Arg Asn Asn Lys Lys Leu
 65 70 75 80

Leu Gly Arg Val Lys Ala Phe Asp Arg His Cys Asn Met Val Leu Glu
 85 90 95

Asn Val Lys Glu Met Trp Thr Glu Val Pro Lys Ser Gly Lys Gly Lys
 100 105 110

Lys Lys Ser Lys Pro Val Asn Lys Asp Arg Tyr Ile Ser Lys Met Phe
 115 120 125

Leu Arg Gly Asp Ser Val Ile Val Val Leu Arg Asn Pro Leu Ile Ala
 130 135 140

Gly Lys
 145

<210> 847

<211> 184

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (179)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 847

Ala	Arg	Met	Ala	Ala	Asp	Lys	Xaa	Pro	Ala	Ala	Gly	Pro	Arg	Ser	Arg
1				5					10					15	

Ala	Ala	Met	Ala	Gln	Trp	Arg	Lys	Lys	Lys	Gly	Leu	Arg	Lys	Arg	Arg
			20					25					30		

Gly	Ala	Ala	Ser	Gln	Ala	Arg	Gly	Ser	Asn	Ser	Glu	Asp	Gly	Glu	Phe
			35				40						45		

Glu	Ile	Gln	Ala	Glu	Asp	Asp	Ala	Arg	Ala	Arg	Lys	Leu	Gly	Pro	Gly
	50					55						60			

Arg	Pro	Leu	Pro	Thr	Phe	Pro	Thr	Ser	Glu	Cys	Thr	Ser	Asp	Val	Glu
65					70					75					80

Pro	Asp	Thr	Arg	Glu	Met	Val	Arg	Ala	Gln	Asn	Lys	Lys	Lys	Lys	Lys
				85					90					95	

Ser	Gly	Gly	Phe	Gln	Ser	Met	Gly	Leu	Ser	Tyr	Pro	Val	Phe	Lys	Gly
			100					105					110		

Ile	Met	Lys	Lys	Gly	Tyr	Lys	Val	Pro	Thr	Pro	Ile	Gln	Arg	Lys	Thr
		115					120						125		

Ile	Pro	Val	Ile	Leu	Asp	Gly	Lys	Asp	Val	Val	Ala	Met	Ala	Arg	Thr
	130					135					140				

Gly	Ser	Gly	Lys	Thr	Ala	Cys	Phe	Leu	Leu	Pro	Met	Phe	Glu	Arg	Leu
145					150					155					160

Lys	Thr	His	Ser	Ala	Gln	Thr	Gly	Ala	Arg	Ala	Ser	Ser	Ser	Arg	Arg
				165				170							175

Pro Glu Xaa Trp Pro Cys Arg Pro
180

<210> 848

<211> 160

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 848

Ala Arg Ala Ser Ser Glu Cys Ala Arg Cys Ala Ala Ala Val Arg Thr
1 5 10 15

Cys Arg Arg Arg His Arg His His Ala Gln Leu Arg Arg His Leu Glu
20 25 30

Asp Ala Xaa Ser Glu Asn Phe Asp Glu Leu Leu Lys Ala Leu Gly Val
35 40 45

Asn Ala Met Leu Arg Lys Val Ala Val Ala Ala Ala Ser Lys Pro His
50 55 60

Val Glu Ile Arg Gln Asp Gly Asp Gln Phe Tyr Ile Lys Thr Ser Thr
65 70 75 80

Thr Val Arg Thr Thr Glu Ile Asn Phe Lys Val Gly Glu Gly Phe Glu
85 90 95

Glu Glu Thr Val Asp Gly Arg Lys Cys Arg Ser Leu Ala Thr Trp Glu
100 105 110

Asn Glu Asn Lys Ile His Cys Thr Gln Thr Leu Leu Glu Gly Asp Gly
115 120 125

Pro Lys Thr Tyr Trp Thr Arg Glu Leu Ala Asn Asp Glu Leu Ile Leu
130 135 140

Thr Phe Gly Ala Asp Asp Val Val Cys Thr Arg Ile Tyr Val Arg Glu
145 150 155 160

794

<210> 849
<211> 75
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 849
Val Gln Asn Val Gly Tyr Gln Ser Lys His Cys Gly Ala Val Xaa Tyr
1 5 10 15
Ala Arg Leu Pro Cys Glu Met Ile Gln Asp Gln Asn Lys Ala Leu Asp
20 25 30
Cys Ser Lys Thr Gln Asn Ser Ser Arg Ala Glu Gly Gly Arg Leu Ile
35 40 45
Trp Xaa Glu Gly Pro Lys Tyr Lys Thr Asp Gly Leu Arg Leu Glu Thr
50 55 60
Arg Gly Leu Arg Trp Lys Ala His Val Pro Arg
65 70 75

<210> 850
<211> 383
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (299)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 850
Ser Thr His Ala Ser Ala His Ala Ser Val Ala Asn Glu Val Ile Lys
1 5 10 15
Cys Lys Ala Ala Val Ala Trp Glu Ala Gly Lys Pro Leu Ser Ile Glu
20 25 30

795

Glu Ile Glu Val Ala Pro Pro Lys Ala His Glu Val Arg Ile Lys Ile
 35 40 45
 Ile Ala Thr Ala Val Cys His Thr Asp Ala Tyr Thr Leu Ser Gly Ala
 50 55 60
 Asp Pro Glu Gly Cys Phe Pro Val Ile Leu Gly His Glu Gly Ala Gly
 65 70 75 80
 Ile Val Glu Ser Val Gly Glu Gly Val Thr Lys Leu Lys Ala Gly Asp
 85 90 95
 Thr Val Ile Pro Leu Tyr Ile Pro Gln Cys Gly Glu Cys Lys Phe Cys
 100 105 110
 Leu Asn Pro Lys Thr Asn Leu Cys Gln Lys Ile Arg Val Thr Gln Gly
 115 120 125
 Lys Gly Leu Met Pro Asp Gly Thr Ser Arg Phe Thr Cys Lys Gly Lys
 130 135 140
 Thr Ile Leu His Tyr Met Gly Thr Ser Thr Phe Ser Glu Tyr Thr Val
 145 150 155 160
 Val Ala Asp Ile Ser Val Ala Lys Ile Asp Pro Leu Ala Pro Leu Asp
 165 170 175
 Lys Val Cys Leu Leu Gly Cys Gly Ile Ser Thr Gly Tyr Gly Ala Ala
 180 185 190
 Val Asn Thr Ala Lys Leu Glu Pro Gly Ser Val Cys Ala Val Phe Gly
 195 200 205
 Leu Gly Gly Val Gly Leu Ala Val Ile Met Gly Cys Lys Val Ala Gly
 210 215 220
 Ala Ser Arg Ile Ile Gly Val Asp Ile Asn Lys Asp Lys Phe Ala Arg
 225 230 235 240
 Ala Lys Glu Phe Gly Ala Thr Glu Cys Ile Asn Pro Gln Asp Phe Ser
 245 250 255
 Lys Pro Ile Gln Glu Val Leu Ile Glu Met Thr Asp Gly Gly Val Asp
 260 265 270
 Tyr Ser Phe Glu Cys Ile Gly Asn Val Lys Val Met Arg Ala Ala Leu
 275 280 285
 Glu Ala Cys His Lys Gly Trp Gly Val Thr Xaa Val Val Gly Val Ala
 290 295 300

796

Ala Ser Gly Glu Glu Ile Ala Thr Arg Pro Phe Gln Leu Val Thr Gly
305 310 315 320

Arg Thr Trp Lys Gly Thr Ala Phe Gly Gly Trp Lys Ser Val Glu Ser
325 330 335

Val Pro Lys Leu Val Ser Glu Tyr Met Ser Lys Lys Ile Lys Val Asp
340 345 350

Glu Phe Val Thr His Asn Leu Ser Phe Asp Glu Ile Asn Lys Ala Phe
355 360 365

Glu Leu Met His Ser Gly Lys Ser Ile Arg Thr Val Val Lys Ile
370 375 380

<210> 851

<211> 154

<212> PRT

<213> Homo sapiens

<400> 851

Ala Arg Ala Pro Arg Ala Thr Leu Asn Gly Pro Gly Ala Arg Gly Arg
1 5 10 15

Val Gly Val Val Val Leu Arg Pro Arg Pro Arg Gly Leu Arg Phe Pro
20 25 30

Trp Cys Pro Gly Arg Pro Ala Ser Gly Ala Val Ser Tyr Glu Ser Ala
35 40 45

His Ala Ala Ser Val Arg Leu Thr Leu Arg Thr Met Glu Gly Gly Phe
50 55 60

Gly Ser Asp Phe Gly Gly Ser Gly Ser Gly Lys Leu Asp Pro Gly Leu
65 70 75 80

Ile Met Glu Gln Val Lys Val Gln Ile Ala Val Ala Asn Ala Gln Glu
85 90 95

Leu Leu Gln Arg Met Thr Asp Lys Cys Phe Arg Lys Cys Ile Gly Lys
100 105 110

Pro Gly Gly Ser Leu Asp Asn Ser Glu Gln Lys Cys Ile Ala Met Cys
115 120 125

Met Asp Arg Tyr Met Asp Ala Trp Asn Thr Val Ser Arg Ala Tyr Asn
130 135 140

Ser Arg Leu Gln Arg Glu Arg Ala Asn Met

145

150

<210> 852

<211> 396

<212> PRT

<213> Homo sapiens

<400> 852

Asp Ser Arg Val Asp Pro Arg Val Arg Ala Ile Ile Ala Lys Thr Phe
 1 5 10 15

Lys Gly Arg Gly Ile Thr Gly Val Glu Asp Lys Glu Ser Trp His Gly
 20 25 30

Lys Pro Leu Pro Lys Asn Met Ala Glu Gln Ile Ile Gln Glu Ile Tyr
 35 40 45

Ser Gln Ile Gln Ser Lys Lys Lys Ile Leu Ala Thr Pro Pro Gln Glu
 50 55 60

Asp Ala Pro Ser Val Asp Ile Ala Asn Ile Arg Met Pro Ser Leu Pro
 65 70 75 80

Ser Tyr Lys Val Gly Asp Lys Ile Ala Thr Arg Lys Ala Tyr Gly Gln
 85 90 95

Ala Leu Ala Lys Leu Gly His Ala Ser Asp Arg Ile Ile Ala Leu Asp
 100 105 110

Gly Asp Thr Lys Asn Ser Thr Phe Ser Glu Ile Phe Lys Lys Glu His
 115 120 125

Pro Asp Arg Phe Ile Glu Cys Tyr Ile Ala Glu Gln Asn Met Val Ser
 130 135 140

Ile Ala Val Gly Cys Ala Thr Arg Asn Arg Thr Val Pro Phe Cys Ser
 145 150 155 160

Thr Phe Ala Ala Phe Phe Thr Arg Ala Phe Asp Gln Ile Arg Met Ala
 165 170 175

Ala Ile Ser Glu Ser Asn Ile Asn Leu Cys Gly Ser His Cys Gly Val
 180 185 190

Ser Ile Gly Glu Asp Gly Pro Ser Gln Met Ala Leu Glu Asp Leu Ala
 195 200 205

Met Phe Arg Ser Val Pro Thr Ser Thr Val Phe Tyr Pro Ser Asp Gly
 210 215 220

798

Val Ala Thr Glu Lys Ala Val Glu Leu Ala Ala Asn Thr Lys Gly Ile
 225 230 235 240
 Cys Phe Ile Arg Thr Ser Arg Pro Glu Asn Ala Ile Ile Tyr Asn Asn
 245 250 255
 Asn Glu Asp Phe Gln Val Gly Gln Ala Lys Val Val Leu Lys Ser Lys
 260 265 270
 Asp Asp Gln Val Thr Val Ile Gly Ala Gly Val Thr Leu His Glu Ala
 275 280 285
 Leu Ala Ala Ala Glu Leu Leu Lys Lys Glu Lys Ile Asn Ile Arg Val
 290 295 300
 Leu Asp Pro Phe Thr Ile Lys Pro Leu Asp Arg Lys Leu Ile Leu Asp
 305 310 315 320
 Ser Ala Arg Ala Thr Lys Gly Arg Ile Leu Thr Val Glu Asp His Tyr
 325 330 335
 Tyr Glu Gly Gly Ile Gly Glu Ala Val Ser Ser Ala Val Val Gly Glu
 340 345 350
 Pro Gly Ile Thr Val Thr His Leu Ala Val Asn Arg Val Pro Arg Ser
 355 360 365
 Gly Lys Pro Ala Glu Leu Leu Lys Met Phe Gly Ile Asp Arg Asp Ala
 370 375 380
 Ile Ala Gln Ala Val Arg Gly Leu Ile Thr Lys Ala
 385 390 395

<210> 853

<211> 302

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (228)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 853

Ser Arg Leu Gly Leu Gln Ser Cys Gly Leu Ser Thr Gln Ala Ile Thr
 1 5 10 15

Leu Ser Glu Thr Ala Ala Ala Leu Asp Cys Ser Leu Pro Arg Leu His

799

20	25	30
Ala Arg Gln Ser Met Arg Val Thr Leu Ala Thr Ile Ala Trp Met Val 35 40 45		
Ser Phe Val Ser Asn Tyr Ser His Thr Ala Asn Ile Leu Pro Asp Ile 50 55 60		
Glu Asn Glu Asp Phe Ile Lys Asp Cys Val Arg Ile His Asn Lys Phe 65 70 75 80		
Arg Ser Glu Val Lys Pro Thr Ala Ser Asp Met Leu Tyr Met Thr Trp 85 90 95		
Asp Pro Ala Leu Ala Gln Ile Ala Lys Ala Trp Ala Ser Asn Cys Gln 100 105 110		
Phe Ser His Asn Thr Arg Leu Lys Pro Pro His Lys Leu His Pro Asn 115 120 125		
Phe Thr Ser Leu Gly Glu Asn Ile Trp Thr Gly Ser Val Pro Ile Phe 130 135 140		
Ser Val Ser Ser Ala Ile Thr Asn Trp Tyr Asp Glu Ile Gln Asp Tyr 145 150 155 160		
Asp Phe Lys Thr Arg Ile Cys Lys Lys Val Cys Gly His Tyr Thr Gln 165 170 175		
Val Val Trp Ala Asp Ser Tyr Lys Val Gly Cys Ala Val Gln Phe Cys 180 185 190		
Pro Lys Val Ser Gly Phe Asp Ala Leu Ser Asn Gly Ala His Phe Ile 195 200 205		
Cys Asn Tyr Gly Pro Gly Gly Asn Tyr Pro Thr Trp Pro Tyr Lys Arg 210 215 220		
Gly Ala Thr Xaa Ser Ala Cys Pro Asn Asn Asp Lys Cys Leu Asp Asn 225 230 235 240		
Leu Cys Val Asn Arg Gln Arg Asp Gln Val Lys Arg Tyr Tyr Ser Val 245 250 255		
Val Tyr Pro Gly Trp Pro Ile Tyr Pro Arg Asn Arg Tyr Thr Ser Leu 260 265 270		
Phe Leu Ile Val Asn Ser Val Ile Leu Ile Leu Ser Val Ile Ile Thr 275 280 285		
Ile Leu Val Gln His Lys Tyr Pro Asn Leu Val Leu Leu Asp		

800

290

295

300

<210> 854

<211> 237

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (235)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 854

Val Pro Ala Ser Phe Ala Ala Ala Ser Ala Val Leu Ser Ala Val Phe
 1 5 10 15

Pro Gln Glu Pro Ala Tyr Phe Leu Asn Met Glu Ser Val Val Arg Arg
 20 25 30

Cys Pro Phe Leu Ser Arg Val Pro Gln Ala Phe Leu Gln Lys Ala Gly
 35 40 45

Lys Ser Leu Leu Phe Tyr Ala Gln Asn Cys Pro Lys Met Met Glu Val
 50 55 60

Gly Ala Lys Pro Ala Pro Arg Ala Leu Ser Thr Ala Ala Val His Tyr
 65 70 75 80

Gln Gln Ile Lys Glu Thr Pro Pro Ala Ser Glu Lys Asp Lys Thr Ala
 85 90 95

Lys Ala Lys Val Gln Gln Thr Pro Asp Gly Ser Gln Gln Ser Pro Asp
 100 105 110

Gly Thr Gln Leu Pro Ser Gly His Pro Leu Pro Ala Thr Ser Gln Gly
 115 120 125

Thr Ala Ser Lys Cys Pro Phe Leu Ala Ala Gln Met Asn Gln Arg Gly
 130 135 140

Ser Ser Val Phe Cys Lys Ala Ser Leu Glu Leu Gln Glu Asp Val Gln
 145 150 155 160

Glu Met Asn Ala Val Arg Lys Glu Val Ala Glu Thr Ser Ala Gly Pro
 165 170 175

Ser Val Val Ser Val Lys Thr Asp Gly Gly Asp Pro Ser Gly Leu Leu
 180 185 190

801

Lys Asn Phe Gln Asp Ile Met Gln Lys Gln Arg Pro Glu Arg Val Ser
 195 200 205

His Leu Leu Gln Asp Asn Leu Pro Lys Ser Val Ser Thr Phe Gln Tyr
 210 215 220

Asp Arg Phe Phe Glu Lys Lys Ile Asp Glu Xaa Lys Glu
 225 230 235

<210> 855

<211> 272

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (202)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 855

Thr Pro Gly Ile Phe Thr Glu Gln Ser Met Ile Thr Phe Leu Pro Leu
 1 5 10 15

Leu Leu Gly Leu Ser Leu Gly Cys Thr Gly Ala Gly Gly Phe Val Ala
 20 25 30

His Val Glu Ser Thr Cys Leu Leu Asp Asp Ala Gly Thr Pro Lys Asp
 35 40 45

Phe Thr Tyr Cys Ile Ser Phe Asn Lys Asp Leu Leu Thr Cys Trp Asp
 50 55 60

Pro Glu Glu Asn Lys Met Ala Pro Cys Glu Phe Gly Val Leu Asn Ser
 65 70 75 80

Leu Ala Asn Val Leu Ser Gln His Leu Asn Gln Lys Asp Thr Leu Met
 85 90 95

Gln Arg Leu Arg Asn Gly Leu Gln Asn Cys Ala Thr His Thr Gln Pro
 100 105 110

Phe Trp Gly Ser Leu Thr Asn Arg Thr Arg Pro Pro Ser Val Gln Val
 115 120 125

Ala Lys Thr Thr Pro Phe Asn Thr Arg Glu Pro Val Met Leu Ala Cys
 130 135 140

Tyr Val Trp Gly Phe Tyr Pro Ala Glu Val Thr Ile Thr Trp Arg Lys
 145 150 155 160

Asn	Gly	Lys	Leu	Val	Met	Pro	His	Ser	Ser	Ala	His	Lys	Thr	Ala	Gln
				165					170					175	
Pro	Asn	Gly	Asp	Trp	Thr	Tyr	Gln	Thr	Leu	Ser	His	Leu	Ala	Leu	Thr
			180					185					190		
Pro	Ser	Tyr	Gly	Asp	Thr	Tyr	Thr	Cys	Xaa	Val	Glu	His	Ile	Gly	Ala
		195					200					205			
Pro	Glu	Pro	Ile	Leu	Arg	Asp	Trp	Thr	Pro	Gly	Leu	Ser	Pro	Met	Gln
	210					215					220				
Thr	Leu	Lys	Val	Ser	Val	Ser	Ala	Val	Thr	Leu	Gly	Leu	Gly	Leu	Ile
225					230					235					240
Ile	Phe	Ser	Leu	Gly	Val	Ile	Ser	Trp	Arg	Arg	Ala	Gly	His	Ser	Ser
			245						250					255	
Tyr	Thr	Pro	Leu	Pro	Gly	Ser	Asn	Tyr	Ser	Glu	Gly	Trp	His	Ile	Ser
			260					265					270		

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<210> 856
<211> 153
<212> PRT
<213> Homo sapiens
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<400> 856

Val	Val	Ala	Arg	Phe	Ile	Arg	Ile	Tyr	Pro	Leu	Thr	Trp	Asn	Gly	Ser
1				5					10					15	
Leu	Cys	Met	Arg	Leu	Glu	Val	Leu	Gly	Cys	Ser	Val	Ala	Pro	Val	Tyr
			20					25					30		
Ser	Tyr	Tyr	Ala	Gln	Asn	Glu	Val	Val	Ala	Thr	Asp	Asp	Leu	Asp	Phe
		35					40					45			
Arg	His	His	Ser	Tyr	Lys	Asp	Met	Arg	Gln	Leu	Met	Lys	Val	Val	Asn
	50					55					60				
Glu	Glu	Cys	Pro	Thr	Ile	Thr	Arg	Thr	Tyr	Ser	Leu	Gly	Lys	Ser	Ser
65					70					75					80
Arg	Gly	Leu	Lys	Ile	Tyr	Ala	Met	Glu	Ile	Ser	Asp	Asn	Pro	Gly	Glu
				85					90					95	

803

His Glu Leu Gly Glu Pro Glu Phe Arg Tyr Thr Ala Gly Ile His Gly
 100 105 110

Asn Glu Val Leu Gly Arg Glu Leu Leu Leu Leu Met Gln Tyr Leu
 115 120 125

Cys Arg Glu Tyr Arg Asp Gly Asn Pro Arg Val Arg Ser Trp Cys Arg
 130 135 140

Thr His Ala Ser Thr Trp Cys Pro His
 145 150

<210> 857

<211> 258

<212> PRT

<213> Homo sapiens

<400> 857

Cys Leu Ser Gln Lys Ala Val Arg Ala Pro Arg Phe Leu Arg Gly Leu
 1 5 10 15

Pro Ser Gly Arg Val Asn Cys Phe Leu Gln Ala Gly His Gly Ala Ser
 20 25 30

Arg Ser Gln Gly Ser Gly Leu Cys Gln Met Leu Lys Glu Gly Ala Lys
 35 40 45

His Phe Ser Gly Leu Glu Glu Ala Val Tyr Arg Asn Ile Gln Ala Cys
 50 55 60

Lys Glu Leu Ala Gln Thr Thr Arg Thr Ala Tyr Gly Pro Asn Gly Met
 65 70 75 80

Asn Lys Met Val Ile Asn His Leu Glu Lys Leu Phe Val Thr Asn Asp
 85 90 95

Ala Ala Thr Ile Leu Arg Glu Leu Glu Val Gln His Pro Ala Ala Lys
 100 105 110

Met Ile Val Met Ala Ser His Met Gln Glu Gln Glu Val Gly Asp Gly
 115 120 125

Thr Asn Phe Val Leu Val Phe Ala Gly Ala Leu Leu Glu Leu Ala Glu
 130 135 140

Glu Leu Leu Arg Ile Gly Leu Ser Val Ser Glu Val Ile Glu Gly Tyr
 145 150 155 160

Glu Ile Ala Cys Arg Lys Ala His Glu Ile Leu Pro Asn Leu Val Cys

804

165 170 175
 Cys Ser Ala Lys Asn Leu Arg Asp Ile Asp Glu Val Ser Ser Leu Leu
 180 185 190
 Arg Thr Ser Ile Met Ser Lys Gln Tyr Gly Asn Glu Val Phe Leu Ala
 195 200 205
 Lys Leu Ile Ala Gln Ala Cys Val Ser Ile Phe Pro Asp Ser Gly His
 210 215 220
 Phe Asn Val Asp Asn Ile Arg Val Cys Lys Ile Leu Gly Ser Gly Ile
 225 230 235 240
 Ser Ser Ser Ser Val Leu His Gly Met Val Phe Lys Lys Glu Thr Glu
 245 250 255
 Val Met

<210> 858
 <211> 143
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (135)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 858
 Pro Asp Ser Leu Pro Pro Pro Ser Pro Arg Leu Pro Ala Xaa Gly Pro
 1 5 10 15
 Glu Phe Pro Gly Arg Pro Thr Arg Pro Glu Arg Ser Pro Ser Leu Gly
 20 25 30
 Ile Pro Lys Cys Phe His Ser Val Ile Arg Thr Glu His Arg Gly Leu
 35 40 45
 Thr Met Glu Phe Gly Leu Ser Trp Ile Phe Leu Ala Ala Ile Leu Lys
 50 55 60
 Gly Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val

805

65		70		75		80									
Lys	Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr
				85					90					95	
Phe	Ser	Asn	Ala	Trp	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly
			100					105					110		
Leu	Glu	Trp	Val	Gly	Arg	Ile	Lys	Ser	Lys	Thr	Asp	Gly	Gly	Thr	Thr
		115					120					125			
Asp	Tyr	Ala	Ala	Pro	Val	Xaa	Arg	Gln	Ile	His	His	Leu	Lys	Arg	
	130						135					140			

<210> 859

<211> 135

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 859

Val	Thr	Met	Ala	Gln	Ala	Ala	Asp	Lys	Tyr	Leu	Tyr	Val	Asp	Lys
1				5				10					15	

Asn	Phe	Ile	Asn	Asn	Pro	Leu	Ala	Gln	Ala	Asp	Trp	Ala	Ala	Lys	Lys
			20					25					30		

Leu	Val	Trp	Val	Pro	Ser	Asp	Lys	Ser	Gly	Phe	Glu	Pro	Ala	Ser	Leu
		35					40					45			

Lys	Glu	Glu	Val	Gly	Glu	Glu	Ala	Ile	Val	Glu	Leu	Val	Glu	Asn	Gly
	50					55					60				

Lys	Lys	Val	Lys	Val	Asn	Lys	Asp	Asp	Ile	Gln	Lys	Met	Asn	Pro	Pro
65					70					75				80	

Lys	Phe	Ser	Lys	Val	Glu	Asp	Met	Ala	Glu	Leu	Thr	Cys	Leu	Asn	Glu
				85					90					95	

Ala	Ser	Val	Leu	His	Asn	Leu	Lys	Glu	Arg	Tyr	Tyr	Ser	Gly	Leu	Ile
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

806

100 105 110
 Tyr Val Ser Gly Cys Arg Gly Thr Pro Gln Ala Gly Ser Glu Gly Ser
 115 120 125

Glu Val Gly Xaa Xaa Ala Gly
 130 135

<210> 860

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 860

Ala Xaa Leu Ile Lys Thr Arg Val Leu Ile Tyr Asn Lys Ser Asn Phe
 1 5 10 15

Ser Leu Ser Leu Gly Thr Ser Asn Cys Thr Pro Gln Ile Thr Asp Thr
 20 25 30

Ser Glu Phe Phe Met Val Lys Lys Ala Pro Thr Leu Thr Tyr Lys Cys
 35 40 45

Gly Pro Arg Asn
 50

<210> 861

<211> 321

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 861

Ala His Gly Val Thr Ser Ala Pro Asp Asn Arg Pro Ala Leu Gly Ser
 1 5 10 15

Thr Xaa Pro Pro Val His Asn Val Thr Ser Ala Ser Gly Ser Ala Ser
 20 25 30

807

Gly Ser Ala Ser Thr Leu Val His Asn Gly Thr Ser Ala Arg Ala Thr
 35 40 45
 Thr Thr Pro Ala Ser Lys Ser Thr Pro Phe Ser Ile Pro Ser His His
 50 55 60
 Ser Asp Thr Pro Thr Thr Leu Ala Ser His Ser Thr Lys Thr Asp Ala
 65 70 75 80
 Ser Ser Thr His His Ser Thr Val Pro Pro Leu Thr Ser Ser Asn His
 85 90 95
 Ser Thr Ser Pro Gln Leu Ser Thr Gly Val Ser Phe Phe Phe Leu Ser
 100 105 110
 Phe His Ile Ser Asn Leu Gln Phe Asn Ser Ser Leu Glu Asp Pro Ser
 115 120 125
 Thr Asp Tyr Tyr Gln Glu Leu Gln Arg Asp Ile Ser Glu Met Phe Leu
 130 135 140
 Gln Ile Tyr Lys Gln Gly Gly Phe Leu Gly Leu Ser Asn Ile Lys Phe
 145 150 155 160
 Arg Pro Gly Ser Val Val Val Gln Leu Thr Leu Ala Phe Arg Glu Gly
 165 170 175
 Thr Ile Asn Val His Asp Val Glu Thr Gln Phe Asn Gln Tyr Lys Thr
 180 185 190
 Glu Ala Ala Ser Arg Tyr Asn Leu Thr Ile Ser Asp Val Ser Val Ser
 195 200 205
 Asp Val Pro Phe Pro Phe Ser Ala Gln Ser Gly Ala Gly Val Pro Gly
 210 215 220
 Trp Gly Ile Ala Leu Leu Val Leu Val Cys Val Leu Val Ala Leu Ala
 225 230 235 240
 Ile Val Tyr Leu Ile Ala Leu Ala Val Cys Gln Cys Arg Arg Lys Asn
 245 250 255
 Tyr Gly Gln Leu Asp Ile Phe Pro Ala Arg Asp Thr Tyr His Pro Met
 260 265 270
 Ser Glu Tyr Pro Thr Tyr His Thr His Gly Arg Tyr Val Pro Pro Ser
 275 280 285
 Ser Thr Asp Arg Ser Pro Tyr Glu Lys Val Ser Ala Gly Asn Gly Gly
 290 295 300

808

Ser Ser Leu Ser Tyr Thr Asn Pro Ala Val Ala Ala Thr Ser Ala Asn
 305 310 315 320

Leu

<210> 862

<211> 327

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (307)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 862

Phe Gly Thr Ser Leu Thr Gln Val Leu Leu Gly Ala Gly Glu Asn Thr
 1 5 10 15

Lys Thr Asn Leu Glu Ser Ile Leu Ser Tyr Pro Lys Asp Phe Thr Cys
 20 25 30

Val His Gln Ala Leu Lys Gly Phe Thr Thr Lys Gly Val Thr Ser Val
 35 40 45

Ser Gln Ile Phe His Ser Pro Asp Leu Ala Ile Arg Asp Thr Phe Val
 50 55 60

Asn Ala Ser Arg Thr Leu Tyr Ser Ser Ser Pro Arg Val Leu Ser Asn
 65 70 75 80

Asn Ser Asp Ala Asn Leu Glu Leu Ile Asn Thr Trp Val Ala Lys Asn
 85 90 95

Thr Asn Asn Lys Ile Ser Arg Leu Leu Asp Ser Leu Pro Ser Asp Thr
 100 105 110

Arg Leu Val Leu Leu Asn Ala Ile Tyr Leu Ser Ala Lys Trp Lys Thr
 115 120 125

Thr Phe Asp Pro Lys Lys Thr Arg Met Glu Pro Phe His Phe Lys Asn
 130 135 140

Ser Val Ile Lys Val Pro Met Met Asn Ser Lys Lys Tyr Pro Val Ala
 145 150 155 160

His Phe Ile Asp Gln Thr Leu Lys Ala Lys Val Gly Gln Leu Gln Leu

809

165	170	175
Ser His Asn Leu Ser Leu Val Ile Leu Val Pro Gln Asn Leu Lys His		
180	185	190
Arg Leu Glu Asp Met Glu Gln Ala Leu Ser Pro Ser Val Phe Lys Ala		
195	200	205
Ile Met Glu Lys Leu Glu Met Ser Lys Phe Gln Pro Thr Leu Leu Thr		
210	215	220
Leu Pro Arg Ile Lys Val Thr Thr Ser Gln Asp Met Leu Ser Ile Met		
225	230	235
Glu Lys Leu Glu Phe Phe Asp Phe Ser Tyr Asp Leu Asn Leu Cys Gly		
245	250	255
Leu Thr Glu Asp Pro Asp Leu Gln Val Ser Ala Met Gln His Gln Thr		
260	265	270
Val Leu Glu Leu Thr Glu Thr Gly Val Glu Ala Ala Ala Ala Ser Ala		
275	280	285
Ile Ser Val Ala Arg Thr Leu Leu Val Phe Glu Val Gln Gln Pro Phe		
290	295	300
Leu Phe Xaa Leu Trp Asp Gln Gln His Lys Phe Pro Val Phe Met Gly		
305	310	315
Arg Val Tyr Asp Pro Arg Ala		
325		

<210> 863
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 863
 Tyr Tyr Ile Val His Leu Lys Leu Thr Glu Arg Val Asn Leu Lys Cys
 1 5 10 15
 Ser His His Thr Asn Pro Lys Val Thr Met Phe Ser Pro His Lys Pro
 20 25 30
 Lys Gly Asn Tyr Val Leu Ile Ser Leu Ile Val Val Thr Ile Ser Gln
 35 40 45
 Cys Ile His Leu Pro Lys His Tyr Val Val Tyr Leu Glu Tyr Ile Ile
 50 55 60

810

Leu Phe Ile Asn Tyr Thr Ser Ile Lys Leu Lys Glu Gly Ile Thr Asn
 65 70 75 80

Ser His Lys Ile Gln Ile
 85

<210> 864

<211> 130

<212> PRT

<213> Homo sapiens

<400> 864

Leu Thr Gln Gln Gln Gln Pro Ala Thr Gly Pro Gln Pro Ser Leu Gly
 1 5 10 15

Val Ser Phe Gly Thr Pro Phe Gly Ser Gly Ile Gly Thr Gly Leu Gln
 20 25 30

Ser Ser Gly Leu Gly Ser Ser Asn Leu Gly Gly Phe Gly Thr Ser Ser
 35 40 45

Gly Phe Gly Cys Ser Thr Thr Gly Ala Ser Thr Phe Gly Phe Gly Thr
 50 55 60

Thr Asn Lys Pro Ser Gly Ser Leu Ser Ala Gly Phe Gly Ser Ser Ser
 65 70 75 80

Thr Ser Gly Phe Asn Phe Ser Asn Pro Gly Ile Thr Ala Ser Ala Gly
 85 90 95

Leu Thr Phe Gly Val Ser Asn Pro Ala Ser Ala Gly Phe Gly Thr Gly
 100 105 110

Gly Gln Leu Leu Gln Leu Lys Lys Pro Pro Ala Gly Asn Lys Arg Gly
 115 120 125

Lys Arg
 130

<210> 865

<211> 78

<212> PRT

<213> Homo sapiens

<400> 865

Ser Glu Trp Lys Ile Lys Gly Pro Ser Ser Pro Leu Ala Ser Leu Pro

811

1 5 10 15
 Gly Arg Arg His Gly Gly Ser Ser Ala Thr Gly Ala Cys Gly Glu Ala
 20 25 30
 Met Ala Ala Ala Glu Gly Ser Ser Gly Pro Ala Gly Leu Thr Leu Gly
 35 40 45
 Arg Ser Phe Ser Asn Tyr Arg Pro Phe Glu Pro Gln Ala Leu Gly Leu
 50 55 60
 Ser Pro Ser Trp Arg Leu Thr Gly Phe Ser Gly Met Lys Gly
 65 70 75

<210> 866

<211> 529

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (517)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 866

Pro Pro Pro Glu Pro Arg Ala Xaa Met Ala Glu Asn Pro Ser Leu Glu
 1 5 10 15
 Asn His Arg Ile Lys Ser Phe Lys Asn Lys Gly Arg Asp Val Glu Thr
 20 25 30
 Met Arg Arg His Arg Asn Glu Val Thr Val Glu Leu Arg Lys Asn Lys
 35 40 45
 Arg Asp Glu His Leu Leu Lys Lys Arg Asn Val Pro Gln Glu Glu Ser
 50 55 60
 Leu Glu Asp Ser Asp Val Asp Ala Asp Phe Lys Ala Gln Asn Val Thr
 65 70 75 80
 Leu Glu Ala Ile Leu Gln Asn Ala Thr Ser Asp Asn Pro Val Val Gln
 85 90 95
 Leu Ser Ala Val Gln Ala Ala Arg Lys Leu Leu Ser Ser Asp Arg Asn

812

100	105	110
Pro Pro Ile Asp Asp Leu Ile Lys Ser Gly Ile Leu Pro Ile Leu Val 115 120 125		
Lys Cys Leu Glu Arg Asp Asp Asn Pro Ser Leu Gln Phe Glu Ala Ala 130 135 140		
Trp Ala Leu Thr Asn Ile Ala Ser Gly Thr Ser Ala Gln Thr Gln Ala 145 150 155 160		
Val Val Gln Ser Asn Ala Val Pro Leu Phe Leu Arg Leu Leu Arg Ser 165 170 175		
Pro His Gln Asn Val Cys Glu Gln Ala Val Trp Ala Leu Gly Asn Ile 180 185 190		
Ile Gly Asp Gly Pro Gln Cys Arg Asp Tyr Val Ile Ser Leu Gly Val 195 200 205		
Val Lys Pro Leu Leu Ser Phe Ile Ser Pro Ser Ile Pro Ile Thr Phe 210 215 220		
Leu Arg Asn Val Thr Trp Val Ile Val Asn Leu Cys Arg Asn Lys Asp 225 230 235 240		
Pro Pro Pro Pro Met Glu Thr Val Gln Glu Ile Leu Pro Ala Leu Cys 245 250 255		
Val Leu Ile Tyr His Thr Asp Ile Asn Ile Leu Val Asp Thr Val Trp 260 265 270		
Ala Leu Ser Tyr Leu Thr Asp Gly Gly Asn Glu Gln Ile Gln Met Val 275 280 285		
Ile Asp Ser Gly Val Val Pro Phe Leu Val Pro Leu Leu Ser His Gln 290 295 300		
Glu Val Lys Val Gln Thr Ala Ala Leu Arg Ala Val Gly Asn Ile Val 305 310 315 320		
Thr Gly Thr Asp Glu Gln Thr Gln Val Val Leu Asn Cys Asp Val Leu 325 330 335		
Ser His Phe Pro Asn Leu Leu Ser His Pro Lys Glu Lys Ile Asn Lys 340 345 350		
Glu Ala Val Trp Phe Leu Ser Asn Ile Thr Ala Gly Asn Gln Gln Gln 355 360 365		
Val Gln Ala Val Ile Asp Ala Gly Leu Ile Pro Met Ile Ile His Gln		

813

370 375 380
 Leu Ala Lys Gly Asp Phe Gly Thr Gln Lys Glu Ala Ala Trp Ala Ile
 385 390 395 400
 Ser Asn Leu Thr Ile Ser Gly Arg Lys Asp Gln Val Glu Tyr Leu Val
 405 410 415
 Gln Gln Asn Val Ile Pro Pro Phe Cys Asn Leu Leu Ser Val Lys Asp
 420 425 430
 Ser Gln Val Val Gln Val Val Leu Asp Gly Leu Lys Asn Ile Leu Ile
 435 440 445
 Met Ala Gly Asp Glu Ala Ser Thr Ile Ala Glu Ile Ile Glu Glu Cys
 450 455 460
 Gly Gly Leu Glu Lys Ile Glu Val Leu Gln Gln His Glu Asn Glu Asp
 465 470 475 480
 Ile Tyr Lys Leu Ala Phe Glu Ile Ile Asp Gln Tyr Phe Ser Gly Asp
 485 490 495
 Asp Ile Asp Glu Asp Pro Cys Leu Ile Pro Glu Ala Thr Gln Gly Gly
 500 505 510
 Thr Tyr Asn Phe Xaa Pro Thr Ala Asn Leu Gln Thr Lys Glu Phe Asn
 515 520 525

Phe

<210> 867
 <211> 237
 <212> PRT
 <213> Homo sapiens

<400> 867
 Arg Pro Gly Pro Val Arg Arg Arg Gly Lys Val Glu Leu Ile Lys Phe
 1 5 10 15
 Val Arg Val Gln Trp Arg Arg Pro Gln Val Glu Trp Arg Arg Arg Arg
 20 25 30
 Trp Gly Pro Gly Pro Gly Ala Ser Met Ala Gly Ser Glu Glu Leu Gly
 35 40 45
 Leu Arg Glu Asp Thr Leu Arg Val Leu Ala Ala Phe Leu Arg Arg Gly
 50 55 60

814

Glu Ala Ala Gly Ser Pro Val Pro Thr Pro Pro Arg Ser Pro Ala Gln
 65 70 75 80
 Glu Glu Pro Thr Asp Phe Leu Ser Arg Leu Arg Arg Cys Leu Pro Cys
 85 90 95
 Ser Leu Gly Arg Gly Ala Ala Pro Ser Glu Ser Pro Arg Pro Cys Ser
 100 105 110
 Leu Pro Ile Arg Pro Cys Tyr Gly Leu Glu Pro Gly Pro Ala Thr Pro
 115 120 125
 Asp Phe Tyr Ala Leu Val Ala Gln Arg Leu Glu Gln Leu Val Gln Glu
 130 135 140
 Gln Leu Lys Ser Pro Pro Ser Pro Glu Leu Gln Gly Pro Pro Ser Thr
 145 150 155 160
 Glu Lys Glu Ala Ile Leu Arg Arg Leu Val Ala Leu Leu Glu Glu Glu
 165 170 175
 Ala Glu Val Ile Asn Gln Lys Leu Ala Ser Asp Pro Ala Leu Arg Thr
 180 185 190
 Ser Trp Ser Ala Cys Pro Pro Thr Leu Ser Pro Ala Trp Trp Ser Cys
 195 200 205
 Ser Val Ala Gly Met Thr Ala Leu Ala Gln Ala Glu His Ala Pro Gly
 210 215 220
 Pro Arg Leu Leu Pro Arg Ser Pro Trp Pro Ala Trp Pro
 225 230 235

<210> 868

<211> 196

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

815

<400> 868

Leu Ser Val Ser Ala Xaa Ala Ala Xaa Val Ala Ala Ala Ala Ile His
 1 5 10 15
 Ser Asp Ser Ala Ala Ala Pro Gly Gly Gly Gly Ala Ala Arg Asp Phe
 20 25 30
 Phe Phe Phe Gln Thr Asp Arg Gly Ala Ala Ala Asp Met Ser Thr Pro
 35 40 45
 Ala Arg Arg Arg Leu Met Arg Asp Phe Lys Arg Leu Gln Glu Asp Pro
 50 55 60
 Pro Val Gly Val Ser Gly Ala Pro Ser Glu Asn Asn Ile Met Gln Trp
 65 70 75 80
 Asn Ala Val Ile Phe Gly Pro Glu Gly Thr Pro Phe Glu Asp Gly Thr
 85 90 95
 Phe Lys Leu Val Ile Glu Phe Ser Glu Glu Tyr Pro Asn Lys Pro Pro
 100 105 110
 Thr Val Arg Phe Leu Ser Lys Met Phe His Pro Asn Val Tyr Ala Asp
 115 120 125
 Gly Ser Ile Cys Leu Asp Ile Leu Gln Asn Arg Trp Ser Pro Thr Tyr
 130 135 140
 Asp Val Ser Ser Ile Leu Thr Ser Ile Gln Ser Leu Leu Asp Glu Pro
 145 150 155 160
 Asn Pro Asn Ser Pro Ala Asn Ser Gln Ala Ala Gln Leu Tyr Gln Glu
 165 170 175
 Asn Lys Arg Glu Tyr Glu Lys Arg Val Ser Ala Ile Val Glu Gln Ser
 180 185 190
 Trp Asn Asp Ser
 195

<210> 869

<211> 544

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 869

Ala	Asp	Ala	Trp	Val	Ala	Xaa	Ala	Xaa	Ala	Ser	Ser	Gly	Leu	Val	Val
1				5					10					15	

Ala	Arg	Pro	Thr	Ser	Ala	Val	Pro	Ala	Glu	Pro	Arg	Pro	Phe	Arg	Pro
			20					25					30		

Ser	Pro	Pro	His	Leu	Ala	Ala	Met	Arg	Leu	Arg	Arg	Leu	Ala	Leu	Phe
		35					40					45			

Pro	Gly	Val	Ala	Leu	Leu	Leu	Ala	Ala	Ala	Arg	Leu	Ala	Ala	Ala	Ser
	50					55					60				

Asp	Val	Leu	Glu	Leu	Thr	Asp	Asp	Asn	Phe	Glu	Ser	Arg	Ile	Ser	Asp
65					70					75					80

Thr	Gly	Ser	Ala	Gly	Leu	Met	Leu	Val	Glu	Phe	Phe	Ala	Pro	Trp	Cys
				85					90					95	

Gly	His	Cys	Lys	Arg	Leu	Ala	Pro	Glu	Tyr	Glu	Ala	Ala	Ala	Thr	Arg
			100					105						110	

Leu	Lys	Gly	Ile	Val	Pro	Leu	Ala	Lys	Val	Asp	Cys	Thr	Ala	Asn	Thr
		115					120					125			

Asn	Thr	Cys	Asn	Lys	Tyr	Gly	Val	Ser	Gly	Tyr	Pro	Thr	Leu	Lys	Ile
		130				135					140				

Phe	Arg	Asp	Gly	Glu	Glu	Ala	Gly	Ala	Tyr	Asp	Gly	Pro	Arg	Thr	Ala
145						150				155					160

Asp	Gly	Ile	Val	Ser	His	Leu	Lys	Lys	Gln	Ala	Gly	Pro	Ala	Ser	Val
			165						170					175	

Pro	Leu	Arg	Thr	Glu	Glu	Glu	Phe	Lys	Lys	Phe	Ile	Ser	Asp	Lys	Asp
			180					185					190		

Ala	Ser	Ile	Val	Gly	Phe	Phe	Asp	Asp	Ser	Phe	Ser	Glu	Ala	His	Ser
			195					200				205			

Glu	Phe	Leu	Lys	Ala	Ala	Ser	Asn	Leu	Arg	Asp	Asn	Tyr	Arg	Phe	Ala
	210						215					220			

His	Thr	Asn	Val	Glu	Ser	Leu	Val	Asn	Glu	Tyr	Asp	Asp	Asn	Gly	Glu
225						230				235				240	

Gly Ile Ile Leu Phe Arg Pro Ser His Leu Thr Asn Lys Phe Glu Asp
 245 250 255
 Lys Thr Val Ala Tyr Thr Glu Gln Lys Met Thr Ser Gly Lys Ile Lys
 260 265 270
 Lys Phe Ile Gln Glu Asn Ile Phe Gly Ile Cys Pro His Met Thr Glu
 275 280 285
 Asp Asn Lys Asp Leu Ile Gln Gly Lys Asp Leu Leu Ile Ala Tyr Tyr
 290 295 300
 Asp Val Asp Tyr Glu Lys Asn Ala Lys Gly Ser Asn Tyr Trp Arg Asn
 305 310 315 320
 Arg Val Met Met Val Ala Lys Lys Phe Leu Asp Ala Gly His Lys Leu
 325 330 335
 Asn Phe Ala Val Ala Ser Arg Lys Thr Phe Ser His Glu Leu Ser Asp
 340 345 350
 Phe Gly Leu Glu Ser Thr Ala Gly Glu Ile Pro Val Val Ala Ile Arg
 355 360 365
 Thr Ala Lys Gly Glu Lys Phe Val Met Gln Glu Glu Phe Ser Arg Asp
 370 375 380
 Gly Lys Ala Leu Glu Arg Phe Leu Gln Asp Tyr Phe Asp Gly Asn Leu
 385 390 395 400
 Lys Arg Tyr Leu Lys Ser Glu Pro Ile Pro Glu Ser Asn Asp Gly Pro
 405 410 415
 Val Lys Val Val Val Ala Glu Asn Phe Asp Glu Ile Val Asn Asn Glu
 420 425 430
 Asn Lys Asp Val Leu Ile Glu Phe Tyr Ala Pro Trp Cys Gly His Cys
 435 440 445
 Lys Asn Leu Glu Pro Lys Tyr Lys Glu Leu Gly Glu Lys Leu Ser Lys
 450 455 460
 Asp Pro Asn Ile Val Ile Ala Lys Met Asp Ala Thr Ala Asn Asp Val
 465 470 475 480
 Pro Ser Pro Tyr Glu Val Arg Gly Phe Pro Thr Ile Tyr Phe Ser Pro
 485 490 495
 Ala Asn Lys Lys Leu Asn Pro Lys Lys Tyr Glu Gly Gly Arg Glu Leu
 500 505 510

Ser Asp Phe Ile Ser Tyr Leu Gln Arg Glu Ala Thr Asn Pro Pro Val
 515 520 525

Ile Gln Glu Glu Lys Pro Lys Lys Lys Lys Lys Ala Gln Glu Asp Leu
 530 535 540

<210> 870

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 870

Arg Arg Xaa Ala Ile Phe Thr Cys Glu Val Pro Gly Val Tyr Tyr Phe
 1 5 10 15

Xaa Tyr His Val His Cys Lys Gly Gly Asn Val Trp Val Ala Leu Phe
 20 25 30

Lys Asn Asn Glu Pro Val Met Tyr Thr Tyr Asp Glu Tyr Lys Lys Gly
 35 40 45

Phe Leu Asp Gln Ala Ser Gly Ser Ala Val Leu Leu Leu Arg Pro Gly
 50 55 60

Asp Arg Cys Ser Ser Arg Cys Pro Gln Asn Arg Leu Gln Asp Cys Met
 65 70 75 80

Pro Gly Ser Met Ser Thr Pro Pro Phe Gln Asp Ile Tyr Cys Ile Pro
 85 90 95

Cys Lys Asn Lys Lys Thr Lys Asn Lys Glu Lys Lys Glu Ile Leu
 100 105 110

819

<210> 871
 <211> 124
 <212> PRT
 <213> Homo sapiens

<400> 871

Gly Lys Thr Glu Val Asn Tyr Thr Gln Leu Val Asp Leu His Ala Arg
 1 5 10 15

Tyr Ala Glu Cys Gly Leu Arg Ile Leu Ala Phe Pro Cys Asn Gln Phe
 20 25 30

Gly Lys Gln Glu Pro Gly Ser Asn Glu Glu Ile Lys Glu Phe Ala Ala
 35 40 45

Gly Tyr Asn Val Lys Phe Asp Met Phe Ser Lys Ile Cys Val Asn Gly
 50 55 60

Asp Asp Ala His Pro Leu Trp Lys Trp Met Lys Ile Gln Pro Lys Gly
 65 70 75 80

Lys Gly Ile Leu Gly Asn Ala Ile Lys Trp Asn Phe Thr Lys Phe Leu
 85 90 95

Ile Asp Lys Asn Gly Cys Val Val Lys Arg Tyr Gly Pro Met Glu Glu
 100 105 110

Pro Leu Val Ile Glu Lys Asp Leu Pro His Tyr Phe
 115 120

<210> 872
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 872

Ser Gln His Phe Gly Arg Pro Arg Gln Ala Glu His Leu Lys Glu Phe
 1 5 10 15

Lys Thr Ser Val Ala Asn Val Val Asn Pro Val Ser Thr Lys Asn Thr
 20 25 30

Lys Ile Val
 35

<210> 873
 <211> 420

820

<212> PRT

<213> Homo sapiens

<400> 873

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Val Cys Leu Gln Leu Cys Gln Ser Thr Val Ser Cys Pro Leu Gly Tyr
  1             5             10            15

Leu Ala Ser Thr Ala Thr Asn Asp Cys Gly Cys Thr Thr Thr Thr Cys
      20             25             30

Leu Pro Asp Lys Val Cys Val His Arg Ser Thr Ile Tyr Pro Val Gly
      35             40             45

Gln Phe Trp Glu Glu Gly Cys Asp Val Cys Thr Cys Thr Asp Met Glu
      50             55             60

Asp Ala Val Met Gly Leu Arg Val Ala Gln Cys Ser Gln Lys Pro Cys
      65             70             75             80

Glu Asp Ser Cys Arg Ser Gly Phe Thr Tyr Val Leu His Glu Gly Glu
      85             90             95

Cys Cys Gly Arg Cys Leu Pro Ser Ala Cys Glu Val Val Thr Gly Ser
      100            105            110

Pro Arg Gly Asp Ser Gln Ser Ser Trp Lys Ser Val Gly Ser Gln Trp
      115            120            125

Ala Ser Pro Glu Asn Pro Cys Leu Ile Asn Glu Cys Val Arg Val Lys
      130            135            140

Glu Glu Val Phe Ile Gln Gln Arg Asn Val Ser Cys Pro Gln Leu Glu
      145            150            155            160

Val Pro Val Cys Pro Ser Gly Phe Gln Leu Ser Cys Lys Thr Ser Ala
      165            170            175

Cys Cys Pro Ser Cys Arg Cys Glu Arg Met Glu Ala Cys Met Leu Asn
      180            185            190

Gly Thr Val Ile Gly Pro Gly Lys Thr Val Met Ile Asp Val Cys Thr
      195            200            205

Thr Cys Arg Cys Met Val Gln Val Gly Val Ile Ser Gly Phe Lys Leu
      210            215            220

Glu Cys Arg Lys Thr Thr Cys Asn Pro Cys Pro Leu Gly Tyr Lys Glu
      225            230            235            240

Glu Asn Asn Thr Gly Glu Cys Cys Gly Arg Cys Leu Pro Thr Ala Cys
      245            250            255

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821

Thr Ile Gln Leu Arg Gly Gly Gln Ile Met Thr Leu Lys Arg Asp Glu
260 265 270

Thr Leu Gln Asp Gly Cys Asp Thr His Phe Cys Lys Val Asn Glu Arg
275 280 285

Gly Glu Tyr Phe Trp Glu Lys Arg Val Thr Gly Cys Pro Pro Phe Asp
290 295 300

Glu His Lys Cys Leu Ala Glu Gly Gly Lys Ile Met Lys Ile Pro Gly
305 310 315 320

Thr Cys Cys Asp Thr Cys Glu Glu Pro Glu Cys Asn Asp Ile Thr Ala
325 330 335

Arg Leu Gln Tyr Val Lys Val Gly Ser Cys Lys Ser Glu Val Glu Val
340 345 350

Asp Ile His Tyr Cys Gln Gly Lys Cys Ala Ser Lys Ala Met Tyr Ser
355 360 365

Ile Asp Ile Asn Asp Val Gln Asp Gln Cys Ser Cys Cys Ser Pro Thr
370 375 380

Arg Thr Glu Pro Met Gln Val Ala Leu His Cys Thr Asn Gly Ser Val
385 390 395 400

Val Tyr His Glu Val Leu Asn Ala Met Glu Cys Lys Cys Ser Pro Arg
405 410 415

Lys Cys Ser Lys
420

<210> 874

<211> 151

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

822

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 874

Arg Gln Val Pro His Glu Arg Ala Val Arg Asp Gly Arg Gly Gly Gly
 1 5 10 15

Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser
 20 25 30

Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln
 35 40 45

Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala
 50 55 60

Ala His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala Arg Thr
 65 70 75 80

Asp Ser Pro Phe Pro Asn Ser Cys Ala Xaa Gly Met Ala Asn Gly Asp
 85 90 95

Ala Pro Cys Met Gly Ala Xaa Lys Arg Gly Gly Cys Gly Gly Tyr Ala
 100 105 110

Gln Trp Thr Arg Tyr Thr Cys Gln Arg Pro Ser Ala Arg Ser Phe Arg
 115 120 125

Phe Leu Pro Phe Leu Ser Arg His Val Arg Arg Leu Ser Pro Xaa Ser
 130 135 140

Ser Lys Ser Val Gly Ser Leu
 145 150

<210> 875

<211> 95

<212> PRT

<213> Homo sapiens

<400> 875

Ala Leu Asn Leu Asn Ser Gln Leu Asn Ile Pro Lys Asp Thr Ser Gln
 1 5 10 15

Leu Lys Lys His Ile Thr Leu Leu Cys Asp Arg Leu Ser Lys Gly Gly
 20 25 30

Arg Leu Cys Leu Ser Thr Asp Ala Ala Ala Pro Gln Thr Met Val Met

823

35 40 45
 Pro Gly Gly Cys Thr Thr Ile Pro Glu Ser Asp Leu Glu Glu Arg Ser
 50 55 60
 Val Glu Gln Asp Ser Thr Glu Leu Phe Thr Asn His Arg His Leu Thr
 65 70 75 80
 Ala Glu Thr Pro Arg Pro Val Ser Pro Leu Gln Gly Val Ser Glu
 85 90 95

<210> 876

<211> 238

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 876

Thr Lys Lys Ala Leu Glu Xaa Ser Asn Xaa Arg Phe Ala Ala Xaa Phe
 1 5 10 15

Phe Arg Thr Xaa Trp Asn Pro Pro Gly Ala Phe Lys Glu Phe Gly Thr
 20 25 30

Ser Leu Leu Arg Arg Arg Arg Gly Ser Gly Ala Asn Met Pro Val Ala
 35 40 45

Arg Ser Trp Val Cys Arg Lys Thr Tyr Val Thr Pro Arg Arg Pro Phe
 50 55 60

824

Glu Lys Ser Arg Leu Asp Gln Glu Leu Lys Leu Ile Gly Glu Tyr Gly
 65 70 75 80
 Leu Arg Asn Lys Arg Glu Val Trp Arg Val Lys Phe Thr Leu Ala Lys
 85 90 95
 Ile Arg Lys Ala Ala Arg Glu Leu Leu Thr Leu Asp Glu Lys Asp Pro
 100 105 110
 Arg Arg Leu Phe Glu Gly Asn Ala Leu Leu Arg Arg Leu Val Arg Ile
 115 120 125
 Gly Val Leu Asp Glu Gly Lys Met Lys Leu Asp Tyr Ile Leu Gly Leu
 130 135 140
 Lys Ile Glu Asp Phe Leu Glu Arg Arg Leu Gln Thr Gln Val Phe Lys
 145 150 155 160
 Leu Gly Leu Ala Lys Ser Ile His His Ala Arg Val Leu Ile Arg Gln
 165 170 175
 Arg His Ile Arg Val Arg Lys Gln Val Val Asn Ile Pro Ser Phe Ile
 180 185 190
 Val Arg Leu Asp Ser Gln Lys His Ile Asp Phe Ser Leu Arg Ser Pro
 195 200 205
 Tyr Gly Gly Gly Arg Pro Gly Arg Val Lys Arg Lys Asn Ala Lys Lys
 210 215 220
 Gly Gln Gly Gly Ala Gly Ala Gly Asp Asp Glu Glu Glu Asp
 225 230 235

<210> 877

<211> 79

<212> PRT

<213> Homo sapiens

<400> 877

Ala Gly Ile Arg His Glu Pro Ser Ala Ala Ala Met Ser Ser Gly Ala
 1 5 10 15
 Ser Ala Ser Ala Leu Gln Arg Leu Val Glu Gln Leu Lys Leu Glu Ala
 20 25 30
 Gly Val Glu Arg Ile Lys Val Ser Gln Ala Ala Ala Glu Leu Gln Gln
 35 40 45
 Tyr Cys Met Gln Asn Ala Cys Lys Asp Ala Leu Leu Val Gly Val Pro

825

50

55

60

Ala Gly Ser Asn Pro Phe Arg Glu Pro Arg Ser Cys Ala Leu Leu
 65 70 75

<210> 878

<211> 136

<212> PRT

<213> Homo sapiens

<400> 878

Ile Ala Ile Met Asn Asp Thr Val Thr Ile Arg Thr Arg Lys Phe Met
 1 5 10 15

Thr Asn Arg Leu Leu Gln Arg Lys Gln Met Val Ile Asp Val Leu His
 20 25 30

Pro Gly Lys Ala Thr Val Pro Lys Thr Glu Ile Arg Glu Lys Leu Ala
 35 40 45

Lys Met Tyr Lys Thr Thr Pro Asp Val Ile Phe Val Phe Gly Phe Arg
 50 55 60

Thr His Phe Gly Gly Gly Lys Thr Thr Gly Phe Gly Met Ile Tyr Asp
 65 70 75 80

Ser Leu Asp Tyr Ala Lys Lys Asn Glu Pro Lys His Arg Leu Ala Arg
 85 90 95

His Gly Leu Tyr Glu Lys Lys Lys Thr Ser Arg Lys Gln Arg Lys Glu
 100 105 110

Arg Lys Asn Arg Met Lys Lys Val Arg Gly Thr Ala Lys Ala Asn Val
 115 120 125

Gly Ala Gly Lys Lys Pro Lys Glu
 130 135

<210> 879

<211> 141

<212> PRT

<213> Homo sapiens

<400> 879

Gly Cys Val Gly Val Arg Pro Ser Leu His Pro Ala Thr Ser Thr Ala
 1 5 10 15

826

Ser Gly Ser Ala Ser Pro Thr Leu Ala Arg Ala Met Ala Ser Val Ser
20 25 30

Glu Leu Ala Cys Ile Tyr Ser Ala Leu Ile Leu His Asp Asp Glu Val
35 40 45

Thr Val Thr Glu Asp Lys Ile Asn Ala Leu Ile Lys Ala Ala Gly Val
50 55 60

Asn Val Glu Pro Phe Trp Pro Gly Leu Phe Ala Lys Ala Leu Ala Asn
65 70 75 80

Val Asn Ile Gly Ser Leu Ile Cys Asn Val Gly Ala Gly Gly Pro Ala
85 90 95

Pro Ala Ala Gly Ala Ala Pro Ala Gly Gly Pro Ala Pro Ser Thr Ala
100 105 110

Ala Ala Pro Ala Glu Glu Lys Lys Val Glu Ala Lys Lys Glu Glu Ser
115 120 125

Glu Glu Ser Asp Asp Asp Met Gly Phe Gly Leu Phe Asp
130 135 140

<210> 880

<211> 133

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

827

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 880

Ser Ala Gly Ala His Ala His Gly Ala Arg Glu Leu Ala Xaa Phe Leu
 1 5 10 15

Thr Pro Xaa Pro Gly Ala Glu Ala Lys Glu Val Glu Glu Thr Ile Glu
 20 25 30

Gly Met Leu Leu Arg Leu Glu Glu Phe Cys Ser Leu Ala Asp Leu Ile
 35 40 45

Arg Ser Asp Thr Ser Gln Ile Leu Glu Glu Asn Ile Pro Val Leu Lys
 50 55 60

Ala Lys Leu Thr Glu Met Arg Gly Ile Tyr Ala Lys Val Asp Arg Leu
 65 70 75 80

Glu Ala Phe Val Lys Met Val Gly His His Val Ala Phe Leu Glu Ala
 85 90 95

Asp Val Leu Gln Ala Glu Arg Asp His Gly Ala Phe Pro Gln Ala Leu
 100 105 110

Arg Arg Trp Leu Gly Ser Ala Gly Ser Pro Pro Ser Gly Thr Ser Xaa
 115 120 125

Leu Xaa Xaa Cys Pro
 130

<210> 881

<211> 260

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

828

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 881

Ile Glu Glu Pro Arg Asp Thr Arg Leu Gln Val Cys Ser Xaa Val His
 1 5 10 15

Ile Trp Cys Leu Asp Lys Phe Lys Met Arg Lys His Arg His Leu Pro
 20 25 30

Leu Val Ala Val Phe Cys Leu Phe Leu Ser Gly Phe Pro Thr Thr His
 35 40 45

Ala Gln Gln Gln Gln Ala Val Ile Glu Val Asn Lys Arg Asp Ile Val
 50 55 60

Phe Leu Val Asp Gly Ser Ser Ala Leu Gly Leu Ala Asn Phe Asn Ala
 65 70 75 80

Ile Arg Asp Phe Ile Ala Lys Val Ile Gln Arg Leu Glu Ile Gly Gln
 85 90 95

Asp Leu Ile Gln Val Ala Val Ala Gln Tyr Ala Asp Thr Val Arg Pro
 100 105 110

Glu Phe Tyr Phe Asn Thr His Pro Thr Lys Arg Xaa Val Ile Thr Ala
 115 120 125

Val Arg Lys Met Lys Pro Leu Xaa Gly Ser Ala Leu Tyr Thr Gly Ser
 130 135 140

Ala Leu Asp Phe Val Arg Asn Asn Leu Phe Thr Ser Ser Ala Gly Tyr
 145 150 155 160

Arg Ala Ala Glu Gly Ile Pro Lys Leu Leu Xaa Leu Ile Thr Gly Gly
 165 170 175

Lys Ser Leu Asp Glu Ile Ser Gln Pro Ala Gln Glu Leu Lys Arg Ser
 180 185 190

Ser Ile Met Ala Phe Ala Ile Gly Asn Lys Gly Ala Asp Gln Ala Glu
 195 200 205

Leu Glu Glu Ile Ala Phe Asp Ser Ser Leu Val Phe Ile Pro Ala Glu
 210 215 220


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Phe Arg Ala Ala Pro Leu Gln Gly Met Leu Pro Gly Leu Leu Ala Pro
225                230                235                240

Leu Arg Thr Leu Ser Gly Thr Pro Glu Val His Ser Asn Lys Arg Asp
                245                250                255

Ile Ile Phe Leu
                260

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<210> 882

<211> 149

<2.12> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

830

<400> 882

Xaa Xaa Glu Ser Glu Xaa Ser Phe Xaa Cys Arg Lys Xaa Ile Ile Xaa
 1 5 10 15

Phe Leu Xaa Tyr Lys Arg Val Val Phe Leu Lys Gln Leu Ala Ser Gly
 20 25 30

Leu Leu Leu Val Thr Gly Pro Leu Val Leu Asn Arg Val Pro Leu Arg
 35 40 45

Arg Thr His Gln Lys Phe Val Ile Ala Thr Ser Thr Lys Ile Asp Ile
 50 55 60

Ser Asn Val Lys Ile Pro Lys His Leu Thr Asp Ala Tyr Phe Lys Lys
 65 70 75 80

Lys Lys Leu Arg Lys Pro Arg His Gln Glu Gly Glu Ile Phe Asp Thr
 85 90 95

Glu Lys Glu Lys Tyr Glu Ile Thr Glu Gln Arg Lys Ile Asp Gln Lys
 100 105 110

Ala Val Asp Ser Gln Ile Leu Pro Lys Ile Lys Ala Ile Pro Gln Leu
 115 120 125

Gln Gly Tyr Leu Arg Ser Val Phe Ala Leu Thr Asn Gly Ile Tyr Pro
 130 135 140

His Lys Leu Val Phe
 145

<210> 883

<211> 256

<212> PRT

<213> Homo sapiens

<400> 883

Trp Lys Ser Val Val Val Leu Ala Val Ser Ala Gly Ala Gly Ser Ala
 1 5 10 15

His Pro Arg Gln Asn Lys Tyr Ser Val Leu Leu Pro Thr Tyr Asn Glu
 20 25 30

Arg Glu Asn Leu Pro Leu Ile Val Trp Leu Leu Val Lys Ser Phe Ser
 35 40 45

Glu Ser Gly Ile Asn Tyr Glu Ile Ile Ile Ile Asp Asp Gly Ser Pro
 50 55 60

831

Asp Gly Thr Arg Asp Val Ala Glu Gln Leu Glu Lys Ile Tyr Gly Ser
 65 70 75 80
 Asp Arg Ile Leu Leu Arg Pro Arg Glu Lys Lys Leu Gly Leu Gly Thr
 85 90 95
 Ala Tyr Ile His Gly Met Lys His Ala Thr Gly Asn Tyr Ile Ile Ile
 100 105 110
 Met Asp Ala Asp Leu Ser His His Pro Lys Phe Ile Pro Glu Phe Ile
 115 120 125
 Arg Lys Gln Lys Glu Gly Asn Phe Asp Ile Val Ser Gly Thr Arg Tyr
 130 135 140
 Lys Gly Asn Gly Gly Val Tyr Gly Trp Asp Leu Lys Arg Lys Ile Ile
 145 150 155 160
 Ser Arg Gly Ala Asn Phe Leu Thr Gln Ile Leu Leu Arg Pro Gly Ala
 165 170 175
 Ser Asp Leu Thr Gly Ser Phe Arg Leu Tyr Arg Lys Glu Val Leu Glu
 180 185 190
 Lys Leu Ile Glu Lys Cys Val Ser Lys Gly Tyr Val Phe Gln Met Glu
 195 200 205
 Met Ile Val Arg Ala Arg Gln Leu Asn Tyr Thr Ile Gly Glu Val Pro
 210 215 220
 Ile Ser Phe Val Asp Arg Val Tyr Gly Glu Ser Lys Leu Gly Gly Asn
 225 230 235 240
 Glu Ile Val Ser Phe Leu Lys Gly Leu Leu Thr Leu Phe Ala Thr Thr
 245 250 255

<210> 884

<211> 449

<212> PRT

<213> Homo sapiens

<400> 884

Gly Gly Ser Trp Cys Arg Ser Ser Pro Gly Arg Asp Gly Ser Pro Gly
 1 5 10 15

Ala Lys Gly Asp Arg Gly Glu Thr Gly Pro Ala Gly Pro Pro Gly Ala
 20 25 30

Pro Gly Ala Pro Gly Ala Pro Gly Pro Val Gly Pro Ala Gly Lys Ser
 35 40 45

Gly Asp Arg Gly Glu Thr Gly Pro Ala Gly Pro Ala Gly Pro Val Gly
 50 55 60

Pro Val Gly Ala Arg Gly Pro Ala Gly Pro Gln Gly Pro Arg Gly Asp
 65 70 75 80

Lys Gly Glu Thr Gly Glu Gln Gly Asp Arg Gly Ile Lys Gly His Arg
 85 90 95

Gly Phe Ser Gly Leu Gln Gly Pro Pro Gly Pro Pro Gly Ser Pro Gly
 100 105 110

Glu Gln Gly Pro Ser Gly Ala Ser Gly Pro Ala Gly Pro Arg Gly Pro
 115 120 125

Pro Gly Ser Ala Gly Ala Pro Gly Lys Asp Gly Leu Asn Gly Leu Pro
 130 135 140

Gly Pro Ile Gly Pro Pro Gly Pro Arg Gly Arg Thr Gly Asp Ala Gly
 145 150 155 160

Pro Val Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro
 165 170 175

Pro Ser Ala Gly Phe Asp Phe Ser Phe Leu Pro Gln Pro Pro Gln Glu
 180 185 190

Lys Ala His Asp Gly Gly Arg Tyr Tyr Arg Ala Asp Asp Ala Asn Val
 195 200 205

Val Arg Asp Arg Asp Leu Glu Val Asp Thr Thr Leu Lys Ser Leu Ser
 210 215 220

Gln Gln Ile Glu Asn Ile Arg Ser Pro Glu Gly Ser Arg Lys Asn Pro
 225 230 235 240

Ala Arg Thr Cys Arg Asp Leu Lys Met Cys His Ser Asp Trp Lys Ser
 245 250 255

Gly Glu Tyr Trp Ile Asp Pro Asn Gln Gly Cys Asn Leu Asp Ala Ile
 260 265 270

Lys Val Phe Cys Asn Met Glu Thr Gly Glu Thr Cys Val Tyr Pro Thr
 275 280 285

833

Gln Pro Ser Val Ala Gln Lys Asn Trp Tyr Ile Ser Lys Asn Pro Lys
 290 295 300

Asp Lys Arg His Val Trp Phe Gly Glu Ser Met Thr Asp Gly Phe Gln
 305 310 315 320

Phe Glu Tyr Gly Gly Gln Gly Ser Asp Pro Ala Asp Val Ala Ile Gln
 325 330 335

Leu Thr Phe Leu Arg Leu Met Ser Thr Glu Ala Ser Gln Asn Ile Thr
 340 345 350

Tyr His Cys Lys Asn Ser Val Ala Tyr Met Asp Gln Gln Thr Gly Asn
 355 360 365

Leu Lys Lys Ala Leu Leu Leu Gln Gly Ser Asn Glu Ile Glu Ile Arg
 370 375 380

Ala Glu Gly Asn Ser Arg Phe Thr Tyr Ser Val Thr Val Asp Gly Cys
 385 390 395 400

Thr Ser His Thr Gly Ala Trp Gly Lys Thr Val Ile Glu Tyr Lys Thr
 405 410 415

Thr Lys Thr Ser Arg Leu Pro Ile Ile Asp Val Ala Pro Leu Asp Val
 420 425 430

Gly Ala Pro Asp Gln Glu Phe Gly Phe Asp Val Gly Pro Val Cys Phe
 435 440 445

Leu

<210> 885

<211> 64

<212> PRT

<213> Homo sapiens

<400> 885

Gly Lys Leu Val Thr Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp
 1 5 10 15

Pro Arg Val Arg Trp Gly Phe Thr Lys Phe Asn Ala Asp Glu Phe Glu
 20 25 30

Asp Met Val Ala Glu Lys Arg Leu Ile Pro Asp Gly Cys Gly Val Lys
 35 40 45

Tyr Ile Pro Ser Arg Gly Pro Leu Asp Lys Trp Arg Ala Leu His Ser

50

55

60

<210> 886

<211> 132

<212> PRT

<213> Homo sapiens

<400> 886

Thr Thr Leu Arg Ala Leu Ala Leu Asn Leu Trp Pro Pro Lys Ser Arg
 1 5 10 15

Ser Leu Ile Ser Ser Trp Gln Ser Cys Gly Gln Glu Val Leu Lys Gly
 20 25 30

Lys Thr His Ser Asp Asn Cys Ser Pro Ile Tyr Gln Pro Ser Ala Gly
 35 40 45

Val Ser Asp Arg Gly Pro Leu Pro Pro Leu Glu Cys Ala Thr Tyr Glu
 50 55 60

Glu Cys Pro Met Gly Lys Arg Arg Leu Ser Cys Pro Leu Ala Ala Cys
 65 70 75 80

Ala Ser Ile Pro Gly Gln Lys Phe Pro Gln Glu Pro Leu Ala Leu Ala
 85 90 95

Gln Ser His Cys Glu Arg Arg Trp Glu Pro Thr Pro Leu Gly Glu Gly
 100 105 110

Ala Val Leu Leu Gly Thr Ser Gln His Gln Val Arg Ser Leu Lys Leu
 115 120 125

Lys Asn Val Asn
 130

<210> 887

<211> 70

<212> PRT

<213> Homo sapiens

<400> 887

Gly Leu Ser Ser Glu Ala Arg Glu Lys Ser Ser Glu Pro Gln Glu Arg
 1 5 10 15

835

Ser Ser Glu Pro Trp Glu Arg Ser Ser Glu Pro Trp Glu Gly Leu Val
 20 25 30

Thr Phe Glu Asp Val Ala Val Glu Phe Thr Gln Glu Glu Trp Ala Leu
 35 40 45

Leu Asp Pro Ala Gln Arg Thr Leu Tyr Arg Asp Val Met Leu Glu Asn
 50 55 60

Cys Arg Thr Trp Pro His
 65 70

<210> 888
 <211> 373
 <212> PRT
 <213> Homo sapiens

<400> 888
 Val Asp Pro Arg Val Arg Phe Arg Glu Glu Phe Leu Phe Ser Ser Leu
 1 5 10 15

Gln Glu Gly Arg Asp Lys Asp Thr Phe Ser Lys Met Ala Met Val Ser
 20 25 30

Glu Phe Leu Lys Gln Ala Trp Phe Ile Glu Asn Glu Glu Gln Glu Tyr
 35 40 45

Val Gln Thr Val Lys Ser Ser Lys Gly Gly Pro Gly Ser Ala Val Ser
 50 55 60

Pro Tyr Pro Thr Phe Asn Pro Ser Ser Asp Val Ala Ala Leu His Lys
 65 70 75 80

Ala Ile Met Val Lys Gly Val Asp Glu Ala Thr Ile Ile Asp Ile Leu
 85 90 95

Thr Lys Arg Asn Asn Ala Gln Arg Gln Gln Ile Lys Ala Ala Tyr Leu
 100 105 110

Gln Glu Thr Gly Lys Pro Leu Asp Glu Thr Leu Lys Lys Ala Leu Thr
 115 120 125

Gly His Leu Glu Glu Val Val Leu Ala Leu Leu Lys Thr Pro Ala Gln
 130 135 140

Phe Asp Ala Asp Glu Leu Arg Ala Ala Met Lys Gly Leu Gly Thr Asp
 145 150 155 160

Glu Asp Thr Leu Ile Glu Ile Leu Ala Ser Arg Thr Asn Lys Glu Ile

836

165	170	175
Arg Asp Ile Asn Arg Val Tyr Arg Glu Glu Leu Lys Arg Asp Leu Ala		
180	185	190
Lys Asp Ile Thr Ser Asp Thr Ser Gly Asp Phe Arg Asn Ala Leu Leu		
195	200	205
Ser Leu Ala Lys Gly Asp Arg Ser Glu Asp Phe Gly Val Asn Glu Asp		
210	215	220
Leu Ala Asp Ser Asp Ala Arg Ala Leu Tyr Glu Ala Gly Glu Arg Arg		
225	230	235
Lys Gly Thr Asp Val Asn Val Phe Asn Thr Ile Leu Thr Thr Arg Ser		
245	250	255
Tyr Pro Gln Leu Arg Arg Val Phe Gln Lys Tyr Thr Lys Tyr Ser Lys		
260	265	270
His Asp Met Asn Lys Val Leu Asp Leu Glu Leu Lys Gly Asp Ile Glu		
275	280	285
Lys Cys Leu Thr Ala Ile Val Lys Cys Ala Thr Ser Lys Pro Ala Phe		
290	295	300
Phe Ala Glu Lys Leu His Gln Ala Met Lys Gly Val Gly Thr Arg His		
305	310	315
Lys Ala Leu Ile Arg Ile Met Val Ser Arg Ser Glu Ile Asp Met Asn		
325	330	335
Asp Ile Lys Ala Phe Tyr Gln Lys Met Tyr Gly Ile Ser Leu Cys Gln		
340	345	350
Ala Ile Leu Asp Glu Thr Lys Gly Asp Tyr Glu Lys Ile Leu Val Ala		
355	360	365
Leu Cys Gly Gly Asn		
370		

<210> 889
 <211> 336
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 889

Gly	Arg	Lys	Lys	His	Leu	Xaa	Ala	Arg	Leu	Val	Thr	Glu	Met	Asp	Ser
1				5					10					15	

Lys	Tyr	Gln	Cys	Val	Lys	Leu	Asn	Asp	Gly	His	Phe	Met	Pro	Val	Leu
		20						25					30		

Gly	Phe	Gly	Thr	Tyr	Ala	Pro	Ala	Glu	Val	Pro	Lys	Ser	Lys	Ala	Leu
	35					40						45			

Glu	Ala	Xaa	Lys	Leu	Ala	Ile	Glu	Ala	Gly	Phe	Xaa	His	Ile	Asp	Ser
	50					55					60				

Ala	His	Xaa	Tyr	Asn	Asn	Glu	Glu	Gln	Val	Gly	Leu	Ala	Ile	Arg	Ser
65				70						75				80	

Lys	Ile	Ala	Asp	Gly	Ser	Val	Lys	Arg	Glu	Asp	Ile	Phe	Tyr	Thr	Ser
			85						90					95	

Lys	Leu	Trp	Xaa	Asn	Ser	His	Arg	Pro	Glu	Leu	Val	Arg	Pro	Ala	Leu
		100						105					110		

Glu	Arg	Ser	Leu	Lys	Asn	Leu	Gln	Leu	Asp	Tyr	Val	Asp	Leu	Tyr	Leu
		115					120						125		

Ile His Phe Pro Val Ser Val Lys Pro Gly Glu Glu Val Ile Pro Lys
 130 135 140
 Asp Glu Asn Gly Lys Ile Leu Phe Asp Thr Val Asp Leu Cys Ala Thr
 145 150 155 160
 Trp Glu Ala Val Glu Lys Cys Lys Asp Ala Gly Leu Ala Lys Ser Ile
 165 170 175
 Gly Val Ser Asn Phe Asn Xaa Arg Gln Leu Glu Met Ile Leu Asn Lys
 180 185 190
 Pro Gly Leu Lys Tyr Lys Pro Val Cys Asn Gln Val Glu Cys His Pro
 195 200 205
 Tyr Phe Asn Gln Arg Lys Leu Leu Asp Phe Cys Lys Ser Lys Asp Ile
 210 215 220
 Val Leu Val Ala Tyr Ser Ala Leu Gly Ser His Arg Glu Glu Pro Trp
 225 230 235 240
 Val Asp Pro Asn Ser Pro Val Leu Leu Glu Asp Pro Val Leu Cys Ala
 245 250 255
 Leu Ala Lys Lys His Lys Arg Thr Pro Ala Leu Ile Ala Leu Arg Tyr
 260 265 270
 Gln Leu Gln Arg Gly Val Val Val Leu Ala Lys Ser Tyr Asn Glu Gln
 275 280 285
 Arg Ile Arg Gln Asn Val Gln Val Phe Glu Phe Gln Leu Thr Ser Glu
 290 295 300
 Glu Met Lys Ala Ile Asp Gly Leu Asn Arg Asn Val Arg Tyr Leu Thr
 305 310 315 320
 Leu Asp Ile Phe Ala Gly Pro Pro Asn Tyr Pro Phe Ser Asp Glu Tyr
 325 330 335

<210> 890

<211> 195

<212> PRT

<213> Homo sapiens

<400> 890

839

Arg Ser Ser Glu Val Tyr Ala Gln Leu Cys Asn Val Ala Arg Ile Glu
 1 5 10 15
 Ala Glu Arg Glu Ala Gly Val His Phe Arg Pro Gly Tyr Glu Tyr Gly
 20 25 30
 Pro Gly Pro Asp Asp Leu His Tyr Ser Ile Tyr Gly Pro Asp Gly Ala
 35 40 45
 Pro Phe Tyr Asn Tyr Leu Gly Pro Glu Asp Thr Val Pro Glu Pro Ala
 50 55 60
 Phe Pro Asn Thr Ala Gly His Ser Ala Asp Arg Thr Pro Ile Leu Glu
 65 70 75 80
 Ser Pro Leu Gln Pro Ser Glu Leu Gln Pro His Tyr Val Ala Ser His
 85 90 95
 Pro Glu Pro Pro Ala Gly Phe Glu Gly Leu Gln Ala Glu Glu Cys Gly
 100 105 110
 Ile Leu Asn Gly Cys Glu Asn Gly Arg Cys Val Arg Val Arg Glu Gly
 115 120 125
 Tyr Thr Cys Asp Cys Phe Glu Gly Phe Gln Leu Asp Ala Ala His Met
 130 135 140
 Ala Cys Val Asp Val Asn Glu Cys Asp Asp Leu Asn Gly Pro Ala Val
 145 150 155 160
 Leu Cys Val His Gly Tyr Cys Glu Asn Thr Glu Gly Ser Tyr Arg Cys
 165 170 175
 His Cys Ser Pro Gly Tyr Val Ala Glu Ala Gly Pro Pro His Cys Thr
 180 185 190
 Ala Lys Glu
 195

<210> 891

<211> 198

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

840

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 891

Ser Ala Gly Leu Thr Gly Arg Ile Ala Phe Ala Ala Ala Arg Pro Gln
 1 5 10 15

Thr Phe Val Pro Gly Pro Ser Ser Pro Pro Pro Pro Pro Pro Pro Arg
 20 25 30

Pro Ala Glu Leu Ala Pro Ser Pro Pro Ala Asp Met Ser Glu Ser Lys
 35 40 45

Ser Gly Pro Glu Tyr Ala Ser Phe Phe Ala Val Met Gly Ala Ser Ala
 50 55 60

Ala Met Val Phe Ser Ala Leu Gly Ala Ala Tyr Gly Thr Ala Lys Ser
 65 70 75 80

Gly Thr Gly Ile Ala Ala Met Ser Val Met Arg Pro Glu Gln Ile Met
 85 90 95

Lys Ser Ile Ile Pro Val Val Met Ala Gly Ile Xaa Xaa Ile Tyr Gly
 100 105 110

Leu Val Val Ala Val Leu Ile Ala Asn Ser Leu Asn Asp Asp Ile Ser
 115 120 125

Leu Tyr Lys Ser Phe Leu Gln Leu Gly Ala Gly Leu Ser Val Gly Leu
 130 135 140

Ser Gly Leu Ala Ala Gly Phe Ala Ile Gly Ile Val Gly Asp Ala Gly
 145 150 155 160

Val Arg Gly Asn Ala Gln Gln Pro Arg Leu Phe Val Gly Met Ile Leu
 165 170 175

Ile Leu Ile Phe Ala Glu Val Leu Gly Leu Tyr Gly Leu Ile Val Ala
 180 185 190

Leu Ile Leu Ser Thr Lys
 195

<210> 892

<211> 95

<212> PRT

<213> Homo sapiens

841

<400> 892

Asp Ala Trp Ala Pro Ser Glu Ser Arg Glu Ala Leu Leu Thr Pro Pro
 1 5 10 15
 Pro His Arg Arg His Thr Ala Ala Ala Ser Val Met Pro Lys His Glu
 20 25 30
 Phe Ser Val Asp Met Thr Cys Gly Gly Cys Ala Glu Ala Val Ser Arg
 35 40 45
 Val Leu Asn Lys Leu Gly Gly Val Lys Tyr Asp Ile Asp Leu Pro Asn
 50 55 60
 Lys Lys Val Cys Ile Glu Ser Glu His Ser Met Asp Thr Leu Leu Ala
 65 70 75 80
 Thr Leu Lys Lys Thr Gly Lys Thr Val Ser Tyr Leu Gly Leu Glu
 85 90 95

<210> 893

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 893

Gly Glu His Pro Arg Gln Pro Ala Gly Asn Asn Ile Leu Ala Val Leu
 1 5 10 15
 Thr Cys Cys Gln Gln Ile His Arg Thr Trp Met Lys Phe Pro Phe Pro
 20 25 30
 Leu Val Ser Ser Cys Ser Thr Pro Leu Leu Asp Pro Lys Ser Leu Thr
 35 40 45
 Lys Ala Leu Asn Thr Val Lys Met Phe Tyr Ile Pro Phe His Leu Cys
 50 55 60
 Cys Phe Phe Asn Cys Ile Leu Pro Asp Val Leu Met Leu Ser Leu Met

842

65 70 75 80
 Leu Ile Val Ile Pro Val Arg Val His Phe Ile Phe Met Leu Phe Gln
 85 90 95
 Pro Cys Ile Asn Ile His Leu Thr Lys Ile Thr Gln Leu Ile Xaa Lys
 100 105 110
 Lys Lys Lys Asn Xaa Gly Gly Gly Pro Gly Thr
 115 120

<210> 894
 <211> 172
 <212> PRT
 <213> Homo sapiens

<400> 894
 Gln Phe Val Tyr Cys Gly Lys Lys Ala Gln Leu Asn Ile Gly Asn Val
 1 5 10 15
 Leu Pro Val Gly Thr Met Pro Glu Gly Thr Ile Val Cys Cys Leu Glu
 20 25 30
 Glu Lys Pro Gly Asp Arg Gly Lys Leu Ala Arg Ala Ser Gly Asn Tyr
 35 40 45
 Ala Thr Val Ile Ser His Asn Pro Glu Thr Lys Lys Thr Arg Val Lys
 50 55 60
 Leu Pro Ser Gly Ser Lys Lys Val Ile Ser Ser Ala Asn Arg Ala Val
 65 70 75 80
 Val Gly Val Val Ala Gly Gly Gly Arg Ile Asp Lys Pro Ile Leu Lys
 85 90 95
 Ala Gly Arg Ala Tyr His Lys Tyr Lys Ala Lys Arg Asn Cys Trp Pro
 100 105 110
 Arg Val Arg Gly Val Ala Met Asn Pro Val Glu His Pro Phe Gly Gly
 115 120 125
 Gly Asn His Gln His Ile Gly Lys Pro Ser Thr Ile Arg Arg Asp Ala
 130 135 140
 Pro Ala Gly Arg Lys Val Gly Leu Ile Ala Ala Arg Arg Thr Gly Arg
 145 150 155 160
 Leu Arg Gly Thr Lys Thr Val Gln Glu Lys Glu Asn
 165 170

<210> 895

<211> 171

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 895

Asn	Arg	Glu	Gly	Ser	Lys	Gly	Val	Glu	Thr	Arg	Arg	Val	Leu	Val	Gly
1				5					10					15	

Glu	Gln	Gln	Gln	Cys	Xaa	Asp	Ala	Lys	Ser	Gln	Gln	Lys	Glu	Gln	Met
			20					25					30		

Leu	Leu	Leu	Glu	Xaa	Lys	Ser	Ala	Ala	Tyr	Ser	Gln	Val	Leu	Leu	Arg
			35				40					45			

Cys	Leu	Thr	Leu	Leu	Gln	Arg	Leu	Leu	Gln	Glu	His	Arg	Leu	Lys	Thr
	50					55					60				

Gln	Ser	Glu	Leu	Asp	Arg	Ile	Asn	Ala	Gln	Tyr	Leu	Glu	Val	Lys	Cys
65					70					75				80	

Gly	Ala	Met	Ile	Leu	Lys	Leu	Arg	Met	Glu	Glu	Leu	Lys	Ile	Leu	Ser
			85					90					95		

Asp	Thr	Tyr	Thr	Val	Glu	Lys	Val	Glu	Val	His	Arg	Leu	Ile	Arg	Asp
			100				105						110		

Arg	Leu	Glu	Gly	Ala	Ile	His	Leu	Gln	Glu	Gln	Asp	Met	Glu	Asn	Ser
	115						120					125			

Arg	Gln	Val	Leu	Asn	Ser	Tyr	Glu	Val	Leu	Gly	Glu	Glu	Phe	Asp	Arg
	130					135				140					

Leu	Val	Lys	Glu	Tyr	Thr	Val	Leu	Lys	Gln	Ala	Thr	Glu	Asn	Lys	Arg
145					150					155				160	

Trp	Ala	Leu	Gln	Glu	Phe	Ser	Lys	Val	Tyr	Arg
			165					170		

844

<210> 896

<211> 99

<212> PRT

<213> Homo sapiens

<400> 896

Arg Glu Val Met Lys Leu Tyr Leu Phe Gln Trp Ala Leu Phe His Phe
 1 5 10 15

Thr Thr Val Pro Leu Phe Gly Ser Trp Ser Tyr Thr Leu Ile Phe Ser
 20 25 30

Ile Leu Leu Leu Asn Tyr Gln His Lys Ala Ile Tyr Leu Lys Asp Ser
 35 40 45

Val Tyr Pro Ala Ile Ala Leu Lys Ser Ser Arg Lys Arg Asn Pro Leu
 50 55 60

Thr Cys Ile Ser Phe Cys Arg Ala Ser Leu Phe Ser Phe Val Leu Cys
 65 70 75 80

Phe Leu Pro Phe Glu Ser Asp Ser Val Leu Val Arg Lys Thr Ser Trp
 85 90 95

Asp His Ser

<210> 897

<211> 289

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (255)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 897

Ala Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Pro Thr Arg Arg Pro
 1 5 10 15

Arg Val Arg Gly Arg Ser Gln Leu Ser Ala His Gly Pro Ala Ser Phe
 20 25 30

Lys Met Ser Thr Val His Glu Ile Leu Cys Lys Leu Ser Leu Glu Gly
 35 40 45

845

Asp His Ser Thr Pro Pro Ser Ala Tyr Gly Ser Val Lys Ala Tyr Thr
 . 50 55 60

Asn Phe Asp Ala Glu Arg Asp Ala Leu Asn Ile Glu Thr Ala Ile Lys
 65 70 75 80

Thr Lys Gly Val Asp Glu Val Thr Ile Val Asn Ile Leu Thr Asn Arg
 85 90 95

Ser Asn Ala Gln Arg Gln Asp Ile Ala Phe Ala Tyr Gln Arg Arg Thr
 100 105 110

Lys Lys Glu Leu Ala Ser Ala Leu Lys Ser Ala Leu Ser Gly His Leu
 115 120 125

Glu Thr Val Ile Leu Gly Leu Leu Lys Thr Pro Ala Gln Tyr Asp Ala
 130 135 140

Ser Glu Leu Lys Ala Ser Met Lys Gly Leu Gly Thr Asp Glu Asp Ser
 145 150 155 160

Leu Ile Glu Ile Ile Cys Ser Arg Thr Asn Gln Glu Leu Gln Glu Ile
 165 170 175

Asn Arg Val Tyr Lys Glu Met Tyr Lys Thr Asp Leu Glu Lys Asp Ile
 180 185 190

Ile Ser Asp Thr Ser Gly Asp Phe Arg Lys Leu Met Val Ala Leu Ala
 195 200 205

Lys Gly Arg Arg Ala Glu Asp Gly Ser Val Ile Asp Tyr Glu Leu Ile
 210 215 220

Asp Gln Asp Ala Arg Asp Leu Tyr Asp Ala Gly Val Lys Arg Lys Gly
 225 230 235 240

Thr Asp Val Pro Lys Trp Ile Ser Ile Met Thr Glu Arg Ser Xaa Pro
 245 250 255

Thr Ser Arg Lys Tyr Leu Ile Gly Thr Arg Val Thr Ala Leu Met Thr
 260 265 270

Cys Trp Lys Ala Ser Gly Lys Arg Leu Lys Glu Thr Trp Lys Met Leu
 275 280 285

Ser

<210> 898
 <211> 232
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (205)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 898

Asn Pro Arg Gly Lys Val Ala Gly Phe Asp Leu Asp Gly Thr Leu Ile
 1 5 10 15

Thr Thr Arg Ser Gly Lys Val Phe Pro Thr Gly Pro Ser Asp Trp Arg
 20 25 30

Ile Leu Tyr Pro Glu Ile Pro Arg Lys Leu Arg Glu Leu Glu Ala Glu
 35 40 45

Gly Tyr Lys Leu Val Ile Phe Thr Asn Gln Met Ser Ile Gly Arg Gly
 50 55 60

Lys Leu Pro Ala Glu Glu Phe Lys Ala Lys Val Glu Ala Val Val Glu
 65 70 75 80

Lys Leu Gly Val Pro Phe Gln Val Leu Val Ala Thr His Ala Gly Leu
 85 90 95

Tyr Arg Lys Pro Val Thr Gly Met Trp Asp His Leu Gln Glu Gln Ala
 100 105 110

Asn Asp Gly Thr Pro Ile Ser Ile Gly Asp Ser Ile Phe Val Gly Asp
 115 120 125

Ala Ala Gly Arg Pro Ala Asn Trp Ala Pro Gly Arg Lys Lys Lys Asp
 130 135 140

Phe Ser Cys Ala Asp Arg Leu Phe Ala Leu Asn Leu Gly Leu Pro Phe
 145 150 155 160

Ala Thr Pro Glu Glu Phe Phe Leu Lys Trp Pro Ala Ala Gly Phe Glu
 165 170 175

Leu Pro Ala Phe Asp Pro Arg Thr Val Ser Arg Ser Gly Pro Leu Cys
 180 185 190

Leu Pro Glu Ser Arg Ala Leu Leu Ser Ala Thr Arg Xaa Trp Leu Ser
 195 200 205

Gln Trp Asp Ser Leu Gly Pro Gly Ser Pro Pro Phe Ser Arg Ser Thr

847

210

215

220

Ser Cys Arg Pro Asp Met Ser Thr
225 230

<210> 899

<211> 218

<212> PRT

<213> Homo sapiens

<400> 899

Leu Arg Val Ala Arg Pro Asp Ala Ala Arg Ala Ala Pro Leu Ala Pro
1 5 10 15

Ala Ala Ala Met Lys Ala Val Val Gln Arg Val Thr Arg Ala Ser Val
20 25 30

Thr Val Gly Gly Glu Gln Ile Ser Ala Ile Gly Arg Gly Ile Cys Val
35 40 45

Leu Leu Gly Ile Ser Leu Glu Asp Thr Gln Lys Glu Leu Glu His Met
50 55 60

Val Arg Lys Ile Leu Asn Leu Arg Val Phe Glu Asp Glu Ser Gly Lys
65 70 75 80

His Trp Ser Lys Ser Val Met Asp Lys Gln Tyr Glu Ile Leu Cys Val
85 90 95

Ser Gln Phe Thr Leu Gln Cys Val Leu Lys Gly Asn Lys Pro Asp Phe
100 105 110

His Leu Ala Met Pro Thr Glu Gln Ala Glu Gly Phe Tyr Asn Ser Phe
115 120 125

Leu Glu Gln Leu Arg Lys Thr Tyr Arg Pro Glu Leu Ile Lys Asp Gly
130 135 140

Lys Phe Gly Ala Tyr Met Gln Val His Ile Gln Asn Asp Gly Pro Val
145 150 155 160

Thr Ile Glu Leu Glu Ser Pro Ala Pro Gly Thr Ala Thr Ser Asp Pro
165 170 175

Lys Gln Leu Ser Lys Leu Glu Lys Gln Gln Gln Arg Lys Glu Lys Thr
180 185 190

Arg Ala Lys Gly Pro Ser Glu Phe Lys Gln Gly Lys Lys His Ser Pro
195 200 205

848

Lys Arg Arg Pro Gln Cys Gln Gln Arg Gly
210 215

<210> 900

<211> 152

<212> PRT

<213> Homo sapiens

<400> 900

Ser Lys Arg Gly His Val Pro Trp Gly Leu Glu Glu Ile Leu Asp Val
1 5 10 15

Ile Glu Pro Ser Gln Phe Val Lys Ile Gln Glu Pro Leu Phe Lys Gln
20 25 30

Ile Ala Lys Cys Val Ser Ser Pro His Phe Gln Val Ala Glu Arg Ala
35 40 45

Leu Tyr Tyr Trp Asn Asn Glu Tyr Ile Met Ser Leu Ile Glu Glu Asn
50 55 60

Ser Asn Val Ile Leu Pro Ile Met Phe Ser Ser Leu Tyr Arg Ile Ser
65 70 75 80

Lys Glu His Trp Asn Pro Ala Ile Val Ala Leu Val Tyr Asn Val Leu
85 90 95

Lys Ala Phe Met Glu Met Asn Ser Thr Met Phe Asp Glu Leu Thr Ala
100 105 110

Thr Tyr Lys Ser Asp Arg Gln Arg Glu Lys Lys Lys Glu Lys Glu Arg
115 120 125

Glu Glu Leu Trp Lys Lys Leu Glu Asp Leu Glu Leu Lys Arg Gly Leu
130 135 140

Arg Arg Asp Gly Ile Ile Pro Thr
145 150

<210> 901

<211> 261

<212> PRT

<213> Homo sapiens

<400> 901

Gly Leu Arg Glu Ile Ser Gly Arg Leu Ala Glu Met Pro Ala Asp Ser

849

1	5	10	15
Gly Tyr Pro Ala Tyr Leu Gly Ala Arg Leu Ala Ser Phe Tyr Glu Arg	20	25	30
Ala Gly Arg Val Lys Cys Leu Gly Asn Pro Glu Arg Glu Gly Ser Val	35	40	45
Ser Ile Val Gly Ala Val Ser Pro Pro Gly Gly Asp Phe Ser Asp Pro	50	55	60
Val Thr Ser Ala Thr Leu Gly Ile Val Gln Val Phe Trp Gly Leu Asp	65	70	75
Lys Lys Leu Ala Gln Arg Lys His Phe Pro Ser Val Asn Trp Leu Ile	85	90	95
Ser Tyr Ser Lys Tyr Met Arg Ala Leu Asp Glu Tyr Tyr Asp Lys His	100	105	110
Phe Thr Glu Phe Val Pro Leu Arg Thr Lys Ala Lys Glu Ile Leu Gln	115	120	125
Glu Glu Glu Asp Leu Ala Glu Ile Val Gln Leu Val Gly Lys Ala Ser	130	135	140
Leu Ala Glu Thr Asp Lys Ile Thr Leu Glu Val Ala Lys Leu Ile Lys	145	150	155
Asp Asp Phe Leu Gln Gln Asn Gly Tyr Thr Pro Tyr Asp Arg Phe Cys	165	170	175
Pro Phe Tyr Lys Thr Val Gly Met Leu Ser Asn Met Ile Ala Phe Tyr	180	185	190
Asp Met Ala Arg Arg Val Phe Glu Thr Thr Ala Gln Ser Asp Asn Lys	195	200	205
Ile Thr Trp Ser Ile Ile Arg Glu His Met Gly Asp Ile Leu Tyr Lys	210	215	220
Leu Ser Ser Met Lys Phe Lys Asp Pro Leu Lys Asp Gly Glu Ala Lys	225	230	235
Ile Lys Ser Asp Tyr Ala Gln Leu Leu Glu Asp Met Gln Asn Ala Phe	245	250	255
Arg Ser Leu Glu Asp	260		

850

<210> 902
 <211> 169
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (33)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 902
 Phe Pro Gly Arg Pro Thr Arg Pro Arg Gly Ile Ser Val Ser Gly Gly
 1 5 10 15
 Glu Ala Val Cys Pro Val Gln Trp Arg Leu Arg Lys Leu Ala Ala Ala
 20 25 30
 Xaa Gly Lys Gly Gln Glu Val Glu Thr Ser Val Thr Tyr Tyr Arg Leu
 35 40 45
 Glu Glu Val Ala Lys Arg Asn Ser Leu Lys Glu Leu Trp Leu Val Ile
 50 55 60
 His Gly Arg Val Tyr Asp Val Thr Arg Phe Leu Asn Glu His Pro Gly
 65 70 75 80
 Gly Glu Glu Val Leu Leu Glu Gln Ala Gly Val Asp Ala Ser Glu Ser
 85 90 95
 Phe Glu Asp Val Gly His Ser Ser Asp Ala Arg Glu Met Leu Lys Gln
 100 105 110
 Tyr Tyr Ile Gly Asp Ile His Pro Ser Asp Leu Lys Pro Glu Ser Gly
 115 120 125
 Ser Lys Asp Pro Ser Lys Asn Asp Thr Cys Lys Ser Cys Trp Ala Tyr
 130 135 140
 Trp Ile Leu Pro Ile Ile Gly Ala Val Leu Leu Gly Phe Leu Tyr Arg
 145 150 155 160
 Tyr Tyr Thr Ser Glu Ser Lys Ser Ser
 165

<210> 903
 <211> 53
 <212> PRT
 <213> Homo sapiens

851

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 903

Pro	Leu	Cys	Leu	Ala	Lys	Asn	Lys	Asn	Phe	Leu	Ile	Leu	Arg	Xaa	Asn
1				5					10					15	

Ile	Gln	Xaa	Ile	His	Ile	Lys	Ser	Leu	Glu	Asn	Ile	Ile	Pro	Phe	Asp
			20					25					30		

Ser	Leu	Ile	Thr	Leu	Leu	Glu	Tyr	Lys	Glu	Met	Ile	Leu	Asn	Ile	Tyr
		35					40					45			

Val	Val	Leu	Trp	Ser
		50		

<210> 904

<211> 329

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 904

Arg	Arg	Xaa	Ala	Xaa	Pro	Arg	Val	Arg	Trp	Lys	Ile	Cys	Gly	Leu	Ser
1				5					10					15	

Pro	Thr	Thr	Thr	Leu	Ala	Ile	Tyr	Phe	Glu	Val	Val	Asn	Gln	His	Asn
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

852

20	25	30
Ala Pro Ile Xaa Gln Gly Gly Arg Gly Ala Ile Gln Phe Val Thr Gln		
35	40	45
Tyr Gln His Ser Ser Gly Gln Arg Arg Ile Arg Val Thr Thr Ile Ala		
50	55	60
Arg Asn Trp Ala Asp Ala Gln Thr Gln Ile Gln Asn Ile Ala Ala Ser		
65	70	75 80
Phe Asp Gln Glu Ala Ala Ala Ile Leu Met Ala Arg Leu Ala Ile Tyr		
	85	90 95
Arg Ala Glu Thr Glu Glu Gly Pro Asp Val Leu Arg Trp Leu Asp Arg		
100	105	110
Gln Leu Ile Arg Leu Cys Gln Lys Phe Gly Glu Tyr His Lys Asp Asp		
115	120	125
Pro Ser Ser Phe Arg Phe Ser Glu Thr Phe Ser Leu Tyr Pro Gln Phe		
130	135	140
Met Phe His Leu Arg Arg Ser Ser Phe Leu Gln Val Phe Asn Asn Ser		
145	150	155 160
Pro Asp Glu Ser Ser Tyr Tyr Arg His His Phe Met Arg Gln Asp Leu		
	165	170 175
Thr Gln Ser Leu Ile Met Ile Gln Pro Ile Leu Tyr Ala Tyr Ser Phe		
180	185	190
Ser Gly Pro Pro Glu Pro Val Leu Leu Asp Ser Ser Ser Ile Leu Ala		
195	200	205
Asp Arg Ile Leu Leu Met Asp Thr Phe Phe Gln Ile Leu Ile Tyr His		
210	215	220
Gly Glu Thr Ile Ala Gln Trp Arg Lys Ser Gly Tyr Gln Asp Met Pro		
225	230	235 240
Glu Tyr Glu Asn Phe Arg His Leu Leu Gln Ala Pro Val Asp Asp Ala		
	245	250 255
Gln Glu Ile Leu His Ser Arg Phe Pro Met Pro Arg Tyr Ile Asp Thr		
260	265	270
Glu His Gly Gly Ser Gln Ala Arg Phe Leu Leu Ser Lys Val Asn Pro		
275	280	285
Ser Gln Thr His Asn Asn Met Tyr Ala Trp Gly Gln Glu Ser Gly Ala		

290 295 300
 Pro Ile Leu Thr Asp Asp Val Ser Leu Gln Val Phe Met Asp His Leu
 305 310 315 320

 Lys Lys Leu Ala Val Ser Ser Ala Ala
 325

 <210> 905
 <211> 264
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (48)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 905
 Phe Leu Leu Pro Thr Leu Trp Phe Cys Ser Pro Ser Ala Lys Tyr Phe
 1 5 10 15

 Phe Lys Met Ala Phe Tyr Asn Gly Trp Ile Leu Phe Leu Ala Val Leu
 20 25 30

 Ala Ile Pro Val Cys Ala Val Arg Gly Arg Asn Val Glu Asn Met Xaa
 35 40 45

 Ile Leu Arg Leu Met Leu Leu His Ile Lys Tyr Leu Tyr Gly Ile Arg
 50 55 60

 Val Glu Val Arg Gly Ala His His Phe Pro Pro Ser Gln Pro Tyr Val
 65 70 75 80

 Val Val Ser Asn His Gln Ser Ser Leu Asp Leu Leu Gly Met Met Glu
 85 90 95

 Val Leu Pro Gly Arg Cys Val Pro Ile Ala Lys Arg Glu Leu Leu Trp
 100 105 110

 Ala Gly Ser Ala Gly Leu Ala Cys Trp Leu Ala Gly Val Ile Phe Ile
 115 120 125

 Asp Arg Lys Arg Thr Gly Asp Ala Ile Ser Val Met Ser Glu Val Ala
 130 135 140

 Gln Thr Leu Leu Thr Gln Asp Val Arg Val Trp Val Phe Pro Glu Gly
 145 150 155 160

854

Thr Arg Asn His Asn Gly Ser Met Leu Pro Phe Lys Arg Gly Ala Phe
 165 170 175
 His Leu Ala Val Gln Ala Gln Val Pro Ile Val Pro Ile Val Met Ser
 180 185 190
 Ser Tyr Gln Asp Phe Tyr Cys Lys Lys Glu Arg Arg Phe Thr Ser Gly
 195 200 205
 Gln Cys Gln Val Arg Val Leu Pro Pro Val Pro Thr Glu Gly Leu Thr
 210 215 220
 Pro Asp Asp Val Pro Ala Leu Ala Asp Arg Val Arg His Ser Met Leu
 225 230 235 240
 Thr Val Phe Arg Glu Ile Ser Thr Asp Gly Arg Gly Gly Gly Asp Tyr
 245 250 255
 Leu Lys Lys Pro Gly Gly Gly Gly
 260

<210> 906

<211> 189

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 906

Xaa Xaa Pro Xaa Pro Glu Phe Pro Gly Arg Thr His Ala Ser Gly Leu
 1 5 10 15

Leu Arg Ser Arg Leu Ala Leu Arg Trp Leu Ser His Val Arg Arg Pro
 20 25 30

Ser Arg Arg Val Pro Arg Met Pro Arg Gly Ser Arg Ser Arg Thr Ser

855

35	40	45
Arg Met Ala Pro Pro Ala Ser Arg Ala Pro Gln Met Arg Ala Ala Pro		
50	55	60
Arg Pro Ala Pro Val Ala Gln Pro Pro Ala Ala Ala Pro Pro Ser Ala		
65	70	75
Val Gly Ser Ser Ala Ala Ala Pro Arg Gln Pro Gly Leu Met Ala Gln		
85	90	95
Met Ala Thr Thr Ala Ala Gly Val Ala Val Gly Ser Ala Val Gly His		
100	105	110
Thr Leu Gly His Ala Ile Thr Gly Gly Phe Ser Gly Gly Ser Asn Ala		
115	120	125
Glu Pro Ala Arg Pro Asp Ile Thr Tyr Gln Glu Pro Gln Gly Thr Gln		
130	135	140
Pro Ala Gln Gln Gln Gln Pro Cys Leu Tyr Glu Ile Lys Gln Phe Leu		
145	150	155
Glu Cys Ala Gln Asn Gln Gly Asp Ile Lys Leu Cys Glu Gly Phe Asn		
165	170	175
Glu Val Leu Lys Gln Cys Arg Leu Ala Asn Gly Leu Ala		
180	185	

<210> 907

<211> 638

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (427)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 907

Tyr Val Gln Gly Tyr Ser Leu Ser Gln Ala Asp Val Asp Ala Phe Arg
 1 5 10 15

Gln Leu Ser Ala Pro Pro Ala Asp Pro Gln Leu Phe His Val Ala Arg
 20 25 30

Trp Phe Arg His Ile Glu Ala Leu Leu Gly Xaa Pro Cys Gly Lys Gly
 35 40 45

Gln Pro Cys Xaa Leu Pro Ser Xaa Gln Arg Pro Ala Cys Ala Ala Pro
 50 55 60

Val Val Pro Ser Cys Trp Asp Pro Xaa Cys Arg Leu His Leu Tyr Asn
 65 70 75 80

Ser Leu Thr Arg Asn Lys Glu Val Phe Ile Pro Gln Asp Gly Lys Lys
 85 90 95

Val Thr Trp Tyr Cys Cys Gly Pro Thr Val Tyr Asp Ala Ser His Met
 100 105 110

Gly His Ala Arg Ser Tyr Ile Ser Phe Asp Ile Leu Arg Arg Val Leu
 115 120 125

Lys Asp Tyr Phe Lys Phe Asp Val Phe Tyr Cys Met Asn Ile Thr Asp
 130 135 140

Ile Asp Asp Lys Ile Ile Lys Arg Ala Arg Gln Asn His Leu Phe Glu
 145 150 155 160

Gln Tyr Arg Glu Lys Arg Pro Glu Ala Ala Gln Leu Leu Glu Asp Val
 165 170 175

Gln Ala Ala Leu Lys Pro Phe Ser Val Lys Leu Asn Glu Thr Thr Asp
 180 185 190

Pro Asp Lys Lys Gln Met Leu Glu Arg Ile Gln His Ala Val Gln Leu
 195 200 205

Ala Thr Glu Pro Leu Glu Lys Ala Val Gln Ser Arg Leu Thr Gly Glu

210	215	220
Glu Val Asn Ser Cys Val Glu Val Leu Leu Glu Glu Ala Lys Asp Leu		
225	230	235 240
Leu Ser Asp Trp Leu Asp Ser Thr Leu Gly Cys Asp Val Thr Asp Asn		
	245	250 255
Ser Ile Phe Ser Lys Leu Pro Lys Phe Trp Glu Gly Asp Phe His Arg		
	260	265 270
Asp Met Glu Ala Leu Asn Val Leu Pro Pro Asp Val Leu Thr Arg Val		
	275	280 285
Ser Glu Tyr Val Pro Glu Ile Val Asn Phe Val Gln Lys Ile Val Asp		
	290	295 300
Asn Gly Tyr Gly Tyr Val Ser Asn Gly Ser Val Tyr Phe Asp Thr Ala		
	310	315 320
Lys Phe Ala Ser Ser Glu Lys His Ser Tyr Gly Lys Leu Val Pro Glu		
	325	330 335
Ala Val Gly Asp Gln Lys Ala Leu Gln Glu Gly Glu Gly Asp Leu Ser		
	340	345 350
Ile Ser Ala Asp Arg Leu Ser Glu Lys Arg Ser Pro Asn Asp Phe Ala		
	355	360 365
Leu Trp Lys Ala Ser Lys Pro Gly Glu Pro Ser Trp Pro Cys Pro Trp		
	370	375 380
Gly Lys Gly Arg Pro Gly Trp His Ile Glu Cys Ser Ala Met Ala Gly		
	385	390 395 400
Thr Leu Leu Gly Ala Ser Met Asp Ile His Gly Gly Gly Phe Asp Leu		
	405	410 415
Arg Phe Pro His His Asp Asn Glu Leu Ala Xaa Ser Glu Ala Tyr Phe		
	420	425 430
Glu Asn Asp Cys Trp Val Arg Tyr Phe Leu His Thr Gly His Leu Thr		
	435	440 445
Ile Ala Gly Cys Lys Met Ser Lys Ser Leu Lys Asn Phe Ile Thr Ile		
	450	455 460
Lys Asp Ala Leu Lys Lys His Ser Ala Arg Gln Leu Arg Leu Ala Phe		
	465	470 475 480
Leu Met His Ser Trp Lys Asp Thr Leu Asp Tyr Ser Ser Asn Thr Met		

858

485 490 495
 Glu Ser Ala Leu Gln Tyr Glu Lys Phe Leu Asn Glu Phe Phe Leu Asn
 500 505 510
 Val Lys Asp Ile Leu Arg Ala Pro Val Asp Ile Thr Gly Gln Phe Glu
 515 520 525
 Lys Trp Gly Glu Glu Glu Ala Glu Leu Asn Lys Asn Phe Tyr Asp Lys
 530 535 540
 Lys Thr Ala Ile His Lys Ala Leu Cys Asp Asn Val Asp Thr Arg Thr
 545 550 555 560
 Val Met Glu Glu Met Arg Ala Leu Val Ser Gln Cys Asn Leu Tyr Met
 565 570 575
 Ala Ala Arg Lys Ala Val Arg Lys Arg Pro Asn Gln Ala Leu Leu Glu
 580 585 590
 Asn Ile Ala Leu Tyr Leu Thr His Met Leu Lys Ile Phe Gly Ala Val
 595 600 605
 Glu Glu Asp Ser Ser Leu Gly Phe Pro Val Gly Gly Pro Gly Thr Ser
 610 615 620
 Leu Ser Leu Glu Ala Thr Val Met Pro Tyr Leu Gln Val Leu
 625 630 635

 <210> 908
 <211> 248
 <212> PRT
 <213> Homo sapiens

 <400> 908
 Ser His Pro Leu Arg Ser Arg Leu Pro Ser Ala Thr Gly Val Gly His
 1 5 10 15
 Ala Leu Ala Arg Ser Phe Cys Arg His Leu Gly Ser Ala Phe Pro Ala
 20 25 30
 Gln Asn Ala Arg Arg Ser Thr Glu Thr Val Pro Ala Thr Glu Gln Glu
 35 40 45
 Leu Pro Gln Pro Gln Ala Glu Thr Gly Ser Gly Thr Glu Ser Asp Ser
 50 55 60
 Asp Glu Ser Val Pro Glu Leu Glu Glu Gln Asp Ser Thr Gln Ala Thr
 65 70 75 80

859

Thr Gln Gln Ala Gln Leu Ala Ala Ala Ala Glu Ile Asp Glu Glu Pro
85 90 95

Val Ser Lys Ala Lys Gln Ser Arg Ser Glu Lys Lys Ala Arg Lys Ala
100 105 110

Met Ser Lys Leu Gly Leu Arg Gln Val Thr Gly Val Thr Arg Val Thr
115 120 125

Ile Arg Lys Ser Lys Asn Ile Leu Phe Val Ile Thr Lys Pro Asp Val
130 135 140

Tyr Lys Ser Pro Ala Ser Asp Thr Tyr Ile Val Phe Gly Glu Ala Lys
145 150 155 160

Ile Glu Asp Leu Ser Gln Gln Ala Gln Leu Ala Ala Ala Glu Lys Phe
165 170 175

Lys Val Gln Gly Glu Ala Val Ser Asn Ile Gln Glu Asn Thr Gln Thr
180 185 190

Pro Thr Val Gln Glu Glu Ser Glu Glu Glu Glu Val Asp Glu Thr Gly
195 200 205

Val Glu Val Lys Asp Ile Glu Leu Val Met Ser Gln Ala Asn Val Ser
210 215 220

Arg Ala Lys Ala Val Arg Ala Leu Lys Asn Asn Ser Asn Asp Ile Val
225 230 235 240

Asn Ala Ile Met Glu Leu Thr Met
245

<210> 909

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (158)

<223> Xaa equals any of the naturally occurring L-amino acids

860

<400> 909

Gln Gly Cys Cys Tyr Gly Ala Gly Arg Arg Val Ala Arg Leu Leu Ala
 1 5 10 15

Pro Leu Met Trp Arg Arg Ala Val Ser Ser Val Ala Gly Ser Ala Val
 20 25 30

Gly Ala Glu Pro Gly Leu Arg Leu Leu Ala Val Gln Arg Xaa Pro Val
 35 40 45

Glu Gln Arg Ser Ala Gly Leu Ala Arg Pro Gln Thr Leu Ser Ala Ala
 50 55 60

Cys Thr Ala Lys Pro Gly Leu Glu Glu Arg Ala Glu Gly Thr Val Asn
 65 70 75 80

Glu Gly Arg Pro Glu Ser Asp Ala Ala Asp His Thr Gly Pro Lys Phe
 85 90 95

Asp Ile Asp Met Met Val Ser Leu Leu Arg Gln Glu Asn Ala Arg Asp
 100 105 110

Ile Cys Val Ile Gln Val Pro Pro Glu Met Arg Tyr Thr Asp Tyr Phe
 115 120 125

Val Ile Val Ser Gly Thr Ser Thr Arg His Leu His Ala Met Ala Phe
 130 135 140

Tyr Val Val Lys Met Tyr Lys His Leu Lys Cys Lys Arg Xaa Pro Ser
 145 150 155 160

Cys

<210> 910

<211> 487

<212> PRT

<213> Homo sapiens

<400> 910

Lys Ala Ala Ser Gly Pro Ala Thr Ser Ile Thr Gly Val Thr Met Gly
 1 5 10 15

Ala Val Leu Gly Val Phe Ser Leu Ala Ser Trp Val Pro Cys Leu Cys
 20 25 30

Ser Gly Ala Ser Cys Leu Leu Cys Ser Cys Cys Pro Asn Ser Lys Asn
 35 40 45

Ser Thr Val Thr Arg Leu Ile Tyr Ala Phe Ile Leu Leu Leu Ser Thr
 50 55 60
 Val Val Ser Tyr Ile Met Gln Arg Lys Glu Met Glu Thr Tyr Leu Lys
 65 70 75 80
 Lys Ile Pro Gly Phe Cys Glu Gly Gly Phe Lys Ile His Glu Ala Asp
 85 90 95
 Ile Asn Ala Asp Lys Asp Cys Asp Val Leu Val Gly Tyr Lys Ala Val
 100 105 110
 Tyr Arg Ile Ser Phe Ala Met Ala Ile Phe Phe Phe Val Phe Ser Leu
 115 120 125
 Leu Met Phe Lys Val Lys Thr Ser Lys Asp Leu Arg Ala Ala Val His
 130 135 140
 Asn Gly Phe Trp Phe Phe Lys Ile Ala Ala Leu Ile Gly Ile Met Val
 145 150 155 160
 Gly Ser Phe Tyr Ile Pro Gly Gly Tyr Phe Ser Ser Val Trp Phe Val
 165 170 175
 Val Gly Met Ile Gly Ala Ala Leu Phe Ile Leu Ile Gln Leu Val Leu
 180 185 190
 Leu Val Asp Phe Ala His Ser Trp Asn Glu Ser Trp Val Asn Arg Met
 195 200 205
 Glu Glu Gly Asn Pro Arg Leu Trp Tyr Ala Ala Leu Leu Ser Phe Thr
 210 215 220
 Ser Ala Phe Tyr Ile Leu Ser Ile Ile Cys Val Gly Leu Leu Tyr Thr
 225 230 235 240
 Tyr Tyr Thr Lys Pro Asp Gly Cys Thr Glu Asn Lys Phe Phe Ile Ser
 245 250 255
 Ile Asn Leu Ile Leu Cys Val Val Ala Ser Ile Ile Ser Ile His Pro
 260 265 270
 Lys Ile Gln Glu His Gln Pro Arg Ser Gly Leu Leu Gln Ser Ser Leu
 275 280 285
 Ile Thr Leu Tyr Thr Met Tyr Leu Thr Trp Ser Ala Met Ser Asn Glu
 290 295 300
 Pro Asp Arg Ser Cys Asn Pro Asn Leu Met Ser Phe Ile Thr Arg Ile
 305 310 315 320

[illegible]

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<400> 911
Asp Pro Arg Val Arg His Arg Gly Asn Lys Val Val Lys Lys Lys Val
 1             5             10             15
Leu Val Arg Cys Arg His Phe Ile Cys Pro His Ser Leu Arg Leu Ser
      20             25             30

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Gln	Ser	Phe	Gln	Gln	Arg	Tyr	Val	Gly	Pro	Glu	His	Pro	Glu	Phe	Thr
35						40				45					
Thr	Ser	Val	Val	Arg	Arg	Ala	Thr	Met	Arg	Arg	Ala	Leu	Gly	Arg	Ile
50					55				60						
Cys	His	Phe	Gln	Xaa	Val	Arg	Gly	Thr	Ala	Ser	Leu	Gly	Glu	Gly	Ala
65					70				75					80	
Leu	Gly	Cys	Asp	Ser	Arg	Thr	Cys	Lys	Ala	Ala	Ser	Gly	Leu	Trp	Arg
85						90				95					
Gly Arg															

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<210> 912
<211> 206
<212> PRT
<213> Homo sapiens
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<400> 912
Phe Ser Leu Phe Pro Leu Ala Lys Ser Phe Asp Asp Gly Asp Tyr Phe
  1              5              10              15
Pro Val Trp Gly Thr Cys Leu Gly Phe Glu Glu Leu Ser Leu Leu Ile
      20              25              30
Ser Gly Glu Cys Leu Leu Thr Ala Thr Asp Thr Val Asp Val Ala Met
      35              40              45
Pro Leu Asn Phe Thr Gly Gly Gln Leu His Ser Arg Met Phe Gln Asn
  50              55              60
Phe Pro Thr Glu Leu Leu Leu Ser Leu Ala Val Glu Pro Leu Thr Ala
  65              70              75              80
Asn Phe His Lys Trp Ser Leu Ser Val Lys Asn Phe Thr Met Asn Glu
      85              90              95
Lys Leu Lys Lys Phe Phe Asn Val Leu Thr Thr Asn Thr Asp Gly Lys
      100              105              110
Ile Glu Phe Ile Ser Thr Met Glu Gly Tyr Lys Tyr Pro Val Tyr Gly
      115              120              125
Val Gln Trp His Pro Glu Lys Ala Pro Tyr Glu Trp Lys Asn Leu Asp
      130              135              140

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864

Gly Ile Ser His Ala Pro Asn Ala Val Lys Thr Ala Phe Tyr Leu Ala
 145 150 155 160

Glu Phe Phe Val Asn Glu Ala Arg Lys Asn Asn His His Phe Lys Ser
 165 170 175

Glu Ser Glu Glu Glu Lys Ala Leu Ile Tyr Gln Phe Ser Pro Ile Tyr
 180 185 190

Thr Gly Asn Ile Ser Ser Phe Gln Gln Cys Tyr Ile Phe Asp
 195 200 205

<210> 913

<211> 91

<212> PRT

<213> Homo sapiens

<400> 913

Phe Ser Gly Pro Cys Pro Val Asn Thr Leu Gly Trp Glu Val Ser Ser
 1 5 10 15

Phe Ser Pro Leu Leu Ser Ser Cys Leu Asn Met Val Arg Thr Lys Ala
 20 25 30

Asp Ser Val Pro Gly Thr Tyr Arg Lys Val Val Ala Ala Arg Ala Pro
 35 40 45

Arg Lys Val Leu Gly Ser Ser Thr Ser Ala Thr Asn Ser Thr Ser Val
 50 55 60

Ser Ser Arg Lys Glu His Val Leu Cys Asn Leu Ile Thr Gln Met Met
 65 70 75 80

Lys Lys Asn Arg Thr Phe Ser Phe Ile Phe Glu
 85 90

<210> 914

<211> 178

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

865

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 914

Arg Glu Leu Ser Thr Arg Gln Arg Ser Gln Ala Lys Pro Pro Ala Ser
 1 5 10 15

Met Ala Ser Glu Phe Lys Lys Lys Leu Phe Trp Arg Ala Val Val Ala
 20 25 30

Glu Phe Leu Ala Thr Thr Leu Phe Val Phe Ile Ser Ile Gly Ser Ala
 35 40 45

Leu Gly Phe Lys Tyr Pro Val Gly Asn Asn Gln Thr Ala Val Gln Asp
 50 55 60

Asn Val Lys Val Ser Leu Ala Phe Gly Leu Ser Ile Ala Thr Leu Ala
 65 70 75 80

Gln Ser Val Gly His Ile Ser Gly Ala His Leu Asn Pro Ala Val Thr
 85 90 95

Leu Gly Leu Leu Leu Ser Cys Gln Ile Ser Ile Phe Arg Ala Leu Met
 100 105 110

Tyr Ile Ile Ala Gln Cys Val Gly Ala Ile Val Ala Thr Ala Ile Leu
 115 120 125

Ser Gly Ile Xaa Ser Ser Leu Thr Gly Asn Ser Leu Gly Arg Asn Asp
 130 135 140

Leu Ala Xaa Gly Val Asn Phe Gly Pro Xaa Pro Gly His Arg Asp His
 145 150 155 160

Arg Asp Pro Pro Ala Gly Ala Met Arg Ala Gly Tyr Tyr Arg Pro Glu
 165 170 175

Ala Pro

<210> 915

<211> 377

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (355)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 915

Val Cys Ala His Gly Gln Gly Leu Leu Arg Tyr Phe Tyr Ser Arg Arg
1 5 10 15

Ile Asp Ile Thr Leu Ser Ser Val Lys Cys Phe His Lys Leu Ala Ser
20 25 30

Ala Tyr Gly Ala Arg Gln Leu Gln Gly Tyr Cys Ala Ser Leu Phe Ala
35 40 45

Ile Leu Leu Pro Gln Asp Pro Ser Phe Gln Met Pro Leu Asp Leu Tyr
50 55 60

Ala Tyr Ala Val Ala Thr Gly Asp Ala Leu Leu Glu Lys Leu Cys Leu
65 70 75 80

Gln Phe Leu Ala Trp Asn Phe Glu Ala Leu Thr Gln Ala Glu Ala Trp
85 90 95

Pro Ser Val Pro Thr Asp Leu Leu Gln Leu Leu Leu Pro Arg Ser Asp
100 105 110

Leu Ala Val Pro Ser Glu Leu Ala Leu Leu Lys Ala Val Asp Thr Trp
115 120 125

Ser Trp Gly Glu Arg Ala Ser His Glu Glu Val Glu Gly Leu Val Glu
130 135 140

Lys Ile Arg Phe Pro Met Met Leu Pro Glu Glu Leu Phe Glu Leu Gln
145 150 155 160

Phe Asn Leu Ser Leu Tyr Trp Ser His Glu Ala Leu Phe Gln Lys Lys
165 170 175

Thr Leu Gln Ala Leu Glu Phe His Thr Val Pro Phe Gln Leu Leu Ala
180 185 190

Arg Tyr Lys Gly Leu Asn Leu Thr Glu Asp Thr Tyr Lys Pro Arg Ile
195 200 205

Tyr Thr Ser Pro Thr Trp Ser Ala Phe Val Thr Asp Ser Ser Trp Ser
210 215 220

Ala Arg Lys Ser Gln Leu Val Tyr Gln Ser Arg Arg Gly Pro Leu Val

867

225 230 235 240
 Lys Tyr Ser Ser Asp Tyr Phe Gln Ala Pro Ser Asp Tyr Arg Tyr Tyr
 245 250 255
 Pro Tyr Gln Ser Phe Gln Thr Pro Gln His Pro Ser Phe Leu Phe Gln
 260 265 270
 Asp Lys Arg Val Ser Trp Ser Leu Val Tyr Leu Pro Thr Ile Gln Ser
 275 280 285
 Cys Trp Asn Tyr Gly Phe Ser Cys Ser Ser Asp Glu Leu Pro Val Leu
 290 295 300
 Gly Leu Thr Lys Ser Gly Gly Ser Asp Arg Thr Ile Ala Tyr Glu Asn
 305 310 315 320
 Lys Ala Leu Met Leu Cys Glu Gly Leu Phe Val Ala Asp Val Thr Asp
 325 330 335
 Phe Glu Gly Trp Lys Ala Ala Ile Pro Ser Ala Leu Asp Thr Asn Ser
 340 345 350
 Ser Lys Xaa Thr Ser Ser Phe Pro Cys Pro Ala Gly Thr Ser Thr Ala
 355 360 365
 Ser Ala Arg Ser Ser Ala Pro Ser Thr
 370 375

<210> 916

<211> 100

<212> PRT

<213> Homo sapiens

<400> 916

Arg Val Gln Arg Asp Thr Cys Leu Pro Pro Met Ser Leu Ser Phe His
 1 5 10 15
 Leu Pro Ser Arg Arg Met Lys Asn Pro Ser Ile Val Gly Val Leu Cys
 20 25 30
 Thr Asp Ser Gln Gly Leu Asn Leu Gly Cys Arg Gly Thr Leu Ser Asp
 35 40 45
 Glu His Ala Gly Val Ile Ser Val Leu Ala Gln Gln Ala Ala Lys Leu
 50 55 60
 Thr Ser Asp Pro Thr Asp Ile Pro Val Val Cys Leu Glu Ser Asp Asn
 65 70 75 80

868

Gly Asn Ile Met Ile Gln Lys His Asp Gly Ile Thr Val Ala Val His
 85 90 95

Lys Met Ala Ser
 100

<210> 917
 <211> 245
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (44)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (64)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (87)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (172)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (240)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (242)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 917
 Leu Pro Pro Arg Ser Val Gly Gly Leu Gln Lys Met Arg Arg Lys Leu
 1 5 10 15

Gly Leu Val Gln Val Glu Leu Glu Glu Asp Gly Ala Leu Val Ser Lys
 20 25 30

Leu Leu Glu Thr Met His Leu Thr Gly Ala Asp Xaa Thr Asn Thr Phe
 35 40 45
 Tyr Leu Leu Ser Ser Phe Pro Val Glu Leu Glu Ser Pro Gly Leu Xaa
 50 55 60
 Glu Phe Leu Ala Arg Leu Met Glu Gln Cys Ala Ser Leu Glu Glu Leu
 65 70 75 80
 Arg Leu Ala Phe Arg Pro Xaa Met Asp Pro Arg Gln Leu Ser Met Met
 85 90 95
 Leu Met Leu Ala Gln Ser Asn Pro Gln Leu Phe Ala Leu Met Gly Thr
 100 105 110
 Arg Ala Gly Ile Ala Arg Glu Leu Glu Arg Val Glu Gln Gln Ser Arg
 115 120 125
 Leu Glu Gln Leu Ser Ala Ala Glu Leu Gln Ser Arg Asn Gln Gly His
 130 135 140
 Trp Ala Asp Trp Leu Gln Ala Tyr Arg Ala Arg Leu Asp Lys Asp Leu
 145 150 155 160
 Glu Gly Ala Gly Asp Ala Ala Ala Trp Gln Ala Xaa Ala Arg Ala Arg
 165 170 175
 Asp Ala Arg Gln Gln Pro Glu Val Arg Ala Glu Glu Leu His Ser Arg
 180 185 190
 Arg Met Pro Phe Glu Val Ala Glu Arg Gly Asp Phe Ser Glu Val Arg
 195 200 205
 Arg Val Leu Lys Leu Phe Glu Thr Leu Tyr His Cys Glu Ala Gly Ala
 210 215 220
 Ala Thr Arg Arg Pro Arg Pro Arg Glu Ala Asp Gly Gly Gly Arg Xaa
 225 230 235 240
 Gly Xaa Phe Leu Thr
 245

<210> 918

<211> 44

<212> PRT

<213> Homo sapiens

<400> 918

Asn Ser Ala Arg Arg Ile Ser Leu Lys Glu Gly Glu Gly Lys Thr Asp

870

1 5 10 15
 Phe Leu Cys Gly Thr Lys Thr Lys Pro Ser Val Ser Leu Cys Glu Gln
 20 25 30
 Arg Cys Lys Lys Glu Glu Thr Gln Phe Thr His Gly
 35 40

<210> 919
 <211> 160
 <212> PRT
 <213> Homo sapiens

<400> 919
 Phe Gly Thr Arg Val Thr Ser Gly Gly Ser Arg Asp Ala Val Pro Gly
 1 5 10 15
 Ala Glu Pro Pro Lys Met Ala Val Cys Ile Ala Val Ile Ala Lys Glu
 20 25 30
 Asn Tyr Pro Leu Tyr Ile Arg Ser Thr Pro Thr Glu Asn Glu Leu Lys
 35 40 45
 Phe His Tyr Met Val His Thr Ser Leu Asp Val Val Asp Glu Lys Ile
 50 55 60
 Ser Ala Met Gly Lys Ala Leu Val Asp Gln Arg Glu Leu Tyr Leu Gly
 65 70 75 80
 Leu Leu Tyr Pro Thr Glu Asp Tyr Lys Val Tyr Gly Tyr Val Thr Asn
 85 90 95
 Ser Lys Val Lys Phe Val Met Val Val Asp Ser Ser Asn Thr Ala Leu
 100 105 110
 Arg Asp Asn Glu Ile Arg Ser Met Phe Arg Lys Leu His Asn Ser Tyr
 115 120 125
 Thr Asp Val Met Cys Asn Pro Phe Tyr Asn Pro Gly Asp Arg Ile Gln
 130 135 140
 Ser Arg Ala Phe Asp Asn Met Val Thr Ser Met Met Ile Gln Val Cys
 145 150 155 160

1352

465 470 475 480

Ser Glu Thr Ala Lys Pro Ser Val Asn Gly His Gln Lys Ala Leu

 485 490 495

<210> 1313
 <211> 790
 <212> PRT
 <213> Homo sapiens

<400> 1313

Gly Thr Arg Gly Thr Ala Thr Glu Arg Leu Lys Met Ile Pro Phe Leu

1 5 10 15

Pro Met Phe Ser Leu Leu Leu Leu Leu Ile Val Asn Pro Ile Asn Ala

20 25 30

Asn Asn His Tyr Asp Lys Ile Leu Ala His Ser Arg Ile Arg Gly Arg

35 40 45

Asp Gln Gly Pro Asn Val Cys Ala Leu Gln Gln Ile Leu Gly Thr Lys

50 55 60

Lys Lys Tyr Phe Ser Thr Cys Lys Asn Trp Tyr Lys Lys Ser Ile Cys

65 70 75 80

Gly Gln Lys Thr Thr Val Leu Tyr Glu Cys Cys Pro Gly Tyr Met Arg

85 90 95

Met Glu Gly Met Lys Gly Cys Pro Ala Val Leu Pro Ile Asp His Val

100 105 110

Tyr Gly Thr Leu Gly Ile Val Gly Ala Thr Thr Thr Gln Arg Tyr Ser

115 120 125

Asp Ala Ser Lys Leu Arg Glu Glu Ile Glu Gly Lys Gly Ser Phe Thr

130 135 140

Tyr Phe Ala Pro Ser Asn Glu Ala Trp Asp Asn Leu Asp Ser Asp Ile

145 150 155 160

Arg Arg Gly Leu Glu Ser Asn Val Asn Val Glu Leu Leu Asn Ala Leu

165 170 175

His Ser His Met Ile Asn Lys Arg Met Leu Thr Lys Asp Leu Lys Asn

180 185 190

Gly Met Ile Ile Pro Ser Met Tyr Asn Asn Leu Gly Leu Phe Ile Asn

195 200 205

1353

His Tyr Pro Asn Gly Val Val Thr Val Asn Cys Ala Arg Ile Ile His
 210 215 220

Gly Asn Gln Ile Ala Thr Asn Gly Val Val His Val Ile Asp Arg Val
 225 230 235 240

Leu Thr Gln Ile Gly Thr Ser Ile Gln Asp Phe Ile Glu Ala Glu Asp
 245 250 255

Asp Leu Ser Ser Phe Arg Ala Ala Ala Ile Thr Ser Asp Ile Leu Glu
 260 265 270

Ala Leu Gly Arg Asp Gly His Phe Thr Leu Phe Ala Pro Thr Asn Glu
 275 280 285

Ala Phe Glu Lys Leu Pro Arg Gly Val Leu Glu Arg Ile Met Gly Asp
 290 295 300

Lys Val Ala Ser Glu Ala Leu Met Lys Tyr His Ile Leu Asn Thr Leu
 305 310 315 320

Gln Cys Ser Glu Ser Ile Met Gly Gly Ala Val Phe Glu Thr Leu Glu
 325 330 335

Gly Asn Thr Ile Glu Ile Gly Cys Asp Gly Asp Ser Ile Thr Val Asn
 340 345 350

Gly Ile Lys Met Val Asn Lys Lys Asp Ile Val Thr Asn Asn Gly Val
 355 360 365

Ile His Leu Ile Asp Gln Val Leu Ile Pro Asp Ser Ala Lys Gln Val
 370 375 380

Ile Glu Leu Ala Gly Lys Gln Gln Thr Thr Phe Thr Asp Leu Val Ala
 385 390 395 400

Gln Leu Gly Leu Ala Ser Ala Leu Arg Pro Asp Gly Glu Tyr Thr Leu
 405 410 415

Leu Ala Pro Val Asn Asn Ala Phe Ser Asp Asp Thr Leu Ser Met Asp
 420 425 430

Gln Arg Leu Leu Lys Leu Ile Leu Gln Asn His Ile Leu Lys Val Lys
 435 440 445

Val Gly Leu Asn Glu Leu Tyr Asn Gly Gln Ile Leu Glu Thr Ile Gly
 450 455 460

Gly Lys Gln Leu Arg Val Phe Val Tyr Arg Thr Ala Val Cys Ile Glu
 465 470 475 480

Asn	Ser	Cys	Met	Glu	Lys	Gly	Ser	Lys	Gln	Gly	Arg	Asn	Gly	Ala	Ile	
				485				490				495				
His	Ile	Phe	Arg	Glu	Ile	Ile	Lys	Pro	Ala	Glu	Lys	Ser	Leu	His	Glu	
500								505				510				
Lys	Leu	Lys	Gln	Asp	Lys	Arg	Phe	Ser	Thr	Phe	Leu	Ser	Leu	Leu	Glu	
515								520				525				
Ala	Ala	Asp	Leu	Lys	Glu	Leu	Leu	Thr	Gln	Pro	Gly	Asp	Trp	Thr	Leu	
530				535				540								
Phe	Val	Pro	Thr	Asn	Asp	Ala	Phe	Lys	Gly	Met	Thr	Ser	Glu	Glu	Lys	
545				550				555				560				
Glu	Ile	Leu	Ile	Arg	Asp	Lys	Asn	Ala	Leu	Gln	Asn	Ile	Ile	Leu	Tyr	
				565				570				575				
His	Leu	Thr	Pro	Gly	Val	Phe	Ile	Gly	Lys	Gly	Phe	Glu	Pro	Gly	Val	
				580				585				590				
Thr	Asn	Ile	Leu	Lys	Thr	Thr	Gln	Gly	Ser	Lys	Ile	Phe	Leu	Lys	Glu	
595								600				605				
Val	Asn	Asp	Thr	Leu	Leu	Val	Asn	Glu	Leu	Lys	Ser	Lys	Glu	Ser	Asp	
610				615				620								
Ile	Met	Thr	Thr	Asn	Gly	Val	Ile	His	Val	Val	Asp	Lys	Leu	Leu	Tyr	
625				630				635				640				
Pro	Ala	Asp	Thr	Pro	Val	Gly	Asn	Asp	Gln	Leu	Leu	Glu	Ile	Leu	Asn	
				645				650				655				
Lys	Leu	Ile	Lys	Tyr	Ile	Gln	Ile	Lys	Phe	Val	Arg	Gly	Ser	Thr	Phe	
660								665				670				
Lys	Glu	Ile	Pro	Val	Thr	Val	Tyr	Lys	Pro	Ile	Ile	Lys	Lys	Tyr	Thr	
675								680				685				
Lys	Ile	Ile	Asp	Gly	Val	Pro	Val	Glu	Ile	Thr	Glu	Lys	Glu	Thr	Arg	
690				695				700								
Glu	Glu	Arg	Ile	Ile	Thr	Gly	Pro	Glu	Ile	Lys	Tyr	Thr	Arg	Ile	Ser	
705				710				715				720				
Thr	Gly	Gly	Gly	Glu	Thr	Glu	Glu	Thr	Leu	Lys	Lys	Leu	Leu	Gln	Glu	
				725				730				735				
Glu	Val	Thr	Lys	Val	Thr	Lys	Phe	Ile	Glu	Gly	Gly	Asp	Gly	His	Leu	
740								745				750				

1355

Phe Glu Asp Glu Glu Ile Lys Arg Leu Leu Gln Gly Asp Thr Pro Val
 755 760 765

Arg Lys Leu Gln Ala Asn Lys Lys Val Gln Gly Ser Arg Arg Arg Leu
 770 775 780

Arg Glu Gly Arg Ser Gln
 785 790

<210> 1314

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1314

Thr Ser Trp Ala Phe Asp Glu Thr Gly Xaa Asn Thr Ala Val Phe Leu
 1 5 10 15

Leu Glu Ile Xaa Trp Gly Ile Phe Phe Glu Leu Met Gly Thr Ile Arg
 20 25 30

His Asn Cys Leu His Lys Leu Gly Ile Xaa Asp Phe Gly Ile Thr Ile
 35 40 45

Tyr Gln Asn Gly Asp Ile Ser Pro Leu Val Leu Arg Cys Lys Pro Lys
 50 55 60

Asn Ile Met Thr Ser Phe Gln Ala Ser
 65 70

<210> 1315

1356

<211> 268

<212> PRT

<213> Homo sapiens

<400> 1315

Pro Gly Arg Pro Thr Arg Pro Arg Thr Arg Gly Ile Asn Lys Leu Ile
 1 5 10 15
 Arg Ile Gly Arg Asn Glu Cys Val Val Val Ile Arg Val Asp Lys Glu
 20 25 30
 Lys Gly Tyr Ile Asp Leu Ser Lys Arg Arg Val Ser Pro Glu Glu Ala
 35 40 45
 Ile Lys Cys Glu Asp Lys Phe Thr Lys Ser Lys Thr Val Tyr Ser Ile
 50 55 60
 Leu Arg His Val Ala Glu Val Leu Glu Tyr Thr Lys Asp Glu Gln Leu
 65 70 75 80
 Glu Ser Leu Phe Gln Arg Thr Ala Trp Val Phe Asp Asp Lys Tyr Lys
 85 90 95
 Arg Pro Gly Tyr Gly Ala Tyr Asp Ala Phe Lys His Ala Val Ser Asp
 100 105 110
 Pro Ser Ile Leu Asp Ser Leu Asp Leu Asn Glu Asp Glu Arg Glu Val
 115 120 125
 Leu Ile Asn Asn Ile Asn Arg Arg Leu Thr Pro Gln Ala Val Lys Ile
 130 135 140
 Arg Ala Asp Ile Glu Val Ala Cys Tyr Gly Tyr Glu Gly Ile Asp Ala
 145 150 155 160
 Val Lys Glu Ala Leu Arg Ala Gly Leu Asn Cys Ser Thr Glu Asn Met
 165 170 175
 Pro Ile Lys Ile Asn Leu Ile Ala Pro Pro Arg Tyr Val Met Thr Thr
 180 185 190
 Thr Thr Leu Glu Arg Thr Glu Gly Leu Ser Val Leu Ser Gln Ala Met
 195 200 205
 Ala Val Ile Lys Glu Lys Ile Glu Glu Lys Arg Gly Val Phe Asn Val
 210 215 220
 Gln Met Glu Pro Lys Val Val Thr Asp Thr Asp Glu Thr Glu Leu Ala
 225 230 235 240
 Arg Gln Met Glu Arg Leu Glu Arg Glu Asn Ala Glu Val Asp Gly Asp

1357

245	250	255
Asp Asp Ala Glu Glu Met Glu Ala Lys Ala Glu Asp		
260	265	
<210> 1316		
<211> 315		
<212> PRT		
<213> Homo sapiens		
<400> 1316		
Gly Gln Arg Ala Gly Met Pro His Ala Gln Gly Gly Trp Ser Gly Pro		
1	5	10
Ala Ala Asp Ser Ala Glu Pro Ala Leu Pro Ala Gly Glu Pro Gly Gly		
20	25	30
Pro Thr Leu Met Arg Leu Asn Ser Val Gln Ser Ser Glu Arg Pro Leu		
35	40	45
Phe Leu Val His Pro Ile Glu Gly Ser Thr Thr Val Phe His Ser Leu		
50	55	60
Ala Ser Arg Leu Ser Ile Pro Thr Tyr Gly Leu Gln Cys Thr Arg Ala		
65	70	75
Ala Pro Leu Asp Ser Ile His Ser Leu Ala Ala Tyr Tyr Ile Asp Cys		
85	90	95
Ile Arg Gln Val Gln Pro Glu Gly Pro Tyr Arg Val Ala Gly Tyr Ser		
100	105	110
Tyr Gly Ala Cys Val Ala Phe Glu Met Cys Ser Gln Leu Gln Ala Gln		
115	120	125
Gln Ser Pro Ala Pro Thr His Asn Ser Leu Phe Leu Phe Asp Gly Ser		
130	135	140
Pro Thr Tyr Val Leu Ala Tyr Thr Gln Ser Tyr Arg Ala Lys Leu Thr		
145	150	155
Pro Gly Cys Glu Ala Glu Ala Glu Thr Glu Ala Ile Cys Phe Phe Val		
165	170	175
Gln Gln Phe Thr Asp Met Glu His Asn Arg Val Leu Glu Ala Leu Leu		
180	185	190
Pro Leu Lys Gly Leu Glu Glu Arg Val Ala Ala Ala Val Asp Leu Ile		
195	200	205

1358

Ile Lys Ser His Gln Gly Leu Asp Arg Gln Glu Leu Ser Phe Ala Ala
210 215 220

Arg Ser Phe Tyr Tyr Lys Leu Arg Ala Ala Glu Gln Tyr Thr Pro Lys
225 230 235 240

Ala Lys Tyr His Gly Asn Val Met Leu Leu Arg Ala Lys Thr Gly Gly
245 250 255

Ala Tyr Gly Glu Asp Leu Gly Ala Asp Tyr Asn Leu Ser Gln Val Cys
260 265 270

Asp Gly Lys Val Ser Val His Val Ile Glu Gly Asp His Arg Thr Leu
275 280 285

Leu Glu Gly Ser Gly Leu Glu Ser Ile Ile Ser Ile Ile His Ser Ser
290 295 300

Leu Ala Glu Pro Arg Val Ser Val Arg Glu Gly
305 310 315

<210> 1317

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

1359

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (186)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1317

Thr Thr Xaa Val Xaa Asp Arg Leu Leu Xaa Thr Ser Gly Ser Pro Gly
 1 5 10 15

Thr Asp Arg Xaa Phe Gly His Glu Xaa Glu Met Ala Pro Asn Ala Ser
 20 25 30

Cys Leu Cys Val His Val Arg Ser Glu Glu Trp Asp Leu Met Thr Phe
 35 40 45

Asp Ala Asn Pro Tyr Asp Ser Val Lys Lys Ile Lys Glu His Val Arg
 50 55 60

Ser Lys Thr Lys Val Pro Val Gln Asp Gln Val Leu Leu Leu Gly Ser
 65 70 75 80

Lys Ile Leu Lys Pro Arg Arg Ser Leu Ser Ser Tyr Gly Ile Asp Lys
 85 90 95

Glu Lys Thr Ile His Leu Thr Leu Lys Val Val Lys Pro Ser Asp Glu
 100 105 110

Glu Leu Pro Leu Phe Leu Val Glu Ser Gly Asp Glu Ala Lys Arg His
 115 120 125

Leu Leu Gln Val Arg Arg Ser Ser Val Ala Gln Val Lys Ala Met
 130 135 140

Ile Glu Thr Lys Thr Gly Ile Ile Pro Glu Thr Gln Ile Val Thr Cys
 145 150 155 160

Asn Gly Lys Arg Leu Glu Asp Gly Lys Met Met Ala Asp Tyr Gly Ile
 165 170 175

Arg Lys Gly Asn Leu Leu Phe Leu Ala Xaa Tyr Cys Ile Gly Gly
 180 185 190

<210> 1318

<211> 230

<212> PRT

<213> Homo sapiens

1360

<400> 1318

Arg Asn Leu Gln Glu Thr Ala Ile Met Ala Glu Lys Pro Lys Leu His
 1 5 10 15
 Tyr Phe Asn Ala Arg Gly Arg Met Glu Ser Thr Arg Trp Leu Leu Ala
 20 25 30
 Ala Ala Gly Val Glu Phe Glu Glu Lys Phe Ile Lys Ser Ala Glu Asp
 35 40 45
 Leu Asp Lys Leu Arg Asn Asp Gly Tyr Leu Met Phe Gln Gln Val Pro
 50 55 60
 Met Val Glu Ile Asp Gly Met Lys Leu Val Gln Thr Arg Ala Ile Leu
 65 70 75 80
 Asn Tyr Ile Ala Ser Lys Tyr Asn Leu Tyr Gly Lys Asp Ile Lys Glu
 85 90 95
 Arg Ala Leu Ile Asp Met Tyr Ile Glu Gly Ile Ala Asp Leu Gly Glu
 100 105 110
 Met Ile Leu Leu Leu Pro Val Cys Pro Pro Glu Glu Lys Asp Ala Lys
 115 120 125
 Leu Ala Leu Ile Lys Glu Lys Ile Lys Asn Arg Tyr Phe Pro Ala Phe
 130 135 140
 Glu Lys Val Leu Lys Ser His Gly Gln Asp Tyr Leu Val Gly Asn Lys
 145 150 155 160
 Leu Ser Arg Ala Asp Ile His Leu Val Glu Leu Leu Tyr Tyr Val Glu
 165 170 175
 Glu Leu Asp Ser Ser Leu Ile Ser Ser Phe Pro Leu Leu Lys Ala Leu
 180 185 190
 Lys Thr Arg Ile Ser Asn Leu Pro Thr Val Lys Lys Phe Leu Gln Pro
 195 200 205
 Gly Ser Pro Arg Lys Pro Pro Met Asp Glu Lys Ser Leu Glu Glu Ala
 210 215 220
 Arg Lys Ile Phe Arg Phe
 225 230

<210> 1319

<211> 279

1361

<212> PRT

<213> Homo sapiens

<400> 1319

Glu Gly Pro Ala Glu Gly Asn Met Ala Ala Lys Val Phe Glu Ser Ile
 1 5 10 15
 Gly Lys Phe Gly Leu Ala Leu Ala Val Ala Gly Gly Val Val Asn Ser
 20 25 30
 Ala Leu Tyr Asn Val Asp Ala Gly His Arg Ala Val Ile Phe Asp Arg
 35 40 45
 Phe Arg Gly Val Gln Asp Ile Val Val Gly Glu Gly Thr His Phe Leu
 50 55 60
 Ile Pro Trp Val Gln Lys Pro Ile Ile Phe Asp Cys Arg Ser Arg Pro
 65 70 75 80
 Arg Asn Val Pro Val Ile Thr Gly Ser Lys Asp Leu Gln Asn Val Asn
 85 90 95
 Ile Thr Leu Arg Ile Leu Phe Arg Pro Val Ala Ser Gln Leu Pro Arg
 100 105 110
 Ile Phe Thr Ser Ile Gly Glu Asp Tyr Asp Glu Arg Val Leu Pro Ser
 115 120 125
 Ile Thr Thr Glu Ile Leu Lys Ser Val Val Ala Arg Phe Asp Ala Gly
 130 135 140
 Glu Leu Ile Thr Gln Arg Glu Leu Val Ser Arg Gln Val Ser Asp Asp
 145 150 155 160
 Leu Thr Glu Arg Ala Ala Thr Phe Gly Leu Ile Leu Asp Asp Val Ser
 165 170 175
 Leu Thr His Leu Thr Phe Gly Lys Glu Phe Thr Glu Ala Val Glu Ala
 180 185 190
 Lys Gln Val Ala Gln Gln Glu Ala Glu Arg Ala Arg Phe Val Val Glu
 195 200 205
 Lys Ala Glu Gln Gln Lys Lys Ala Ala Ile Ile Ser Ala Glu Gly Asp
 210 215 220
 Ser Lys Ala Ala Glu Leu Ile Ala Asn Ser Leu Ala Thr Ala Gly Asp
 225 230 235 240
 Gly Leu Ile Glu Leu Arg Lys Leu Glu Ala Ala Glu Asp Ile Ala Tyr
 245 250 255

1362

Gln Leu Ser Arg Ser Arg Asn Ile Thr Tyr Leu Pro Ala Gly Gln Ser
260 265 270

Val Leu Leu Gln Leu Pro Gln
275

<210> 1320

<211> 406

<212> PRT

<213> Homo sapiens

<400> 1320

Val Thr Ala Cys Ala Ala Pro Ala Ala Trp Leu Pro Ile Leu Val Ala
1 5 10 15

Asp Ile Trp Ser Ser Tyr Asn Met Ala Asp Ile Asp Asn Lys Glu Gln
20 25 30

Ser Glu Leu Asp Gln Asp Leu Asp Asp Val Glu Glu Val Glu Glu Glu
35 40 45

Glu Thr Gly Glu Glu Thr Lys Leu Lys Ala Arg Gln Leu Thr Val Gln
50 55 60

Met Met Gln Asn Pro Gln Ile Leu Ala Ala Leu Gln Glu Arg Leu Asp
65 70 75 80

Gly Leu Val Glu Thr Pro Thr Gly Tyr Ile Glu Ser Leu Pro Arg Val
85 90 95

Val Lys Arg Arg Val Asn Ala Leu Lys Asn Leu Gln Val Lys Cys Ala
100 105 110

Gln Ile Glu Ala Lys Phe Tyr Glu Glu Val His Asp Leu Glu Arg Lys
115 120 125

Tyr Ala Val Leu Tyr Gln Pro Leu Phe Asp Lys Arg Phe Glu Ile Ile
130 135 140

Asn Ala Ile Tyr Glu Pro Thr Glu Glu Glu Cys Glu Trp Lys Pro Asp
145 150 155 160

Glu Glu Asp Glu Ile Ser Glu Glu Leu Lys Glu Lys Ala Lys Ile Glu
165 170 175

Asp Glu Lys Lys Asp Glu Glu Lys Glu Asp Pro Lys Gly Ile Pro Glu
180 185 190

1363

Phe Trp Leu Thr Val Phe Lys Asn Val Asp Leu Leu Ser Asp Met Val
 195 200 205
 Gln Glu His Asp Glu Pro Ile Leu Lys His Leu Lys Asp Ile Lys Val
 210 215 220
 Lys Phe Ser Asp Ala Gly Gln Pro Met Ser Phe Val Leu Glu Phe His
 225 230 235 240
 Phe Glu Pro Asn Glu Tyr Phe Thr Asn Glu Val Leu Thr Lys Thr Tyr
 245 250 255
 Arg Met Arg Ser Glu Pro Asp Asp Ser Asp Pro Phe Ser Phe Asp Gly
 260 265 270
 Pro Glu Ile Met Gly Cys Thr Gly Cys Gln Ile Asp Trp Lys Lys Gly
 275 280 285
 Lys Asn Val Thr Leu Lys Thr Ile Lys Lys Lys Gln Lys His Lys Gly
 290 295 300
 Arg Gly Thr Val Arg Thr Val Thr Lys Thr Val Ser Asn Asp Ser Phe
 305 310 315 320
 Phe Asn Phe Phe Ala Pro Pro Glu Val Pro Glu Ser Gly Asp Leu Asp
 325 330 335
 Asp Asp Ala Glu Ala Ile Leu Ala Ala Asp Phe Glu Ile Gly His Phe
 340 345 350
 Leu Arg Glu Arg Ile Ile Pro Arg Ser Val Leu Tyr Phe Thr Gly Glu
 355 360 365
 Ala Ile Glu Asp Asp Asp Asp Asp Tyr Asp Glu Glu Gly Glu Glu Ala
 370 375 380
 Asp Glu Gly Tyr Gln Leu Phe Glu Glu Val Lys Ser Cys Ser Lys Leu
 385 390 395 400
 Phe Gln Arg Trp Leu Gln
 405

<210> 1321
 <211> 173
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE

1364

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1321

Gln Ser Ala Cys Ser Leu Leu Pro Glu Met Pro Arg Ile Leu Thr Arg
 1 5 10 15
 Thr Pro Ser Ser Arg Met Ile Val Leu Arg Leu Met Pro Val Gly Gly
 20 25 30
 Arg Arg Pro Ile Val Thr Ser Phe Gly Gly Cys Ser Thr Ala Pro Arg
 35 40 45
 Ala Asn Phe Pro Leu Pro Xaa Pro Ala Leu Arg Gln Ser Arg Ser Lys
 50 55 60
 Met Ala Val Val Gly Val Ser Ser Val Ser Arg Leu Leu Gly Arg Ser
 65 70 75 80
 Arg Pro Gln Leu Gly Arg Pro Met Ser Ser Gly Ala His Gly Glu Glu
 85 90 95
 Gly Ser Ala Arg Met Trp Lys Thr Leu Thr Phe Phe Val Ala Leu Pro
 100 105 110
 Gly Val Ala Val Ser Met Leu Asn Val Tyr Leu Lys Ser His His Gly
 115 120 125
 Glu His Glu Arg Pro Glu Phe Ile Ala Tyr Pro His Leu Arg Ile Arg
 130 135 140
 Thr Lys Pro Phe Pro Trp Gly Asp Gly Asn His Thr Leu Phe His Asn
 145 150 155 160
 Pro His Val Asn Pro Leu Pro Thr Gly Tyr Glu Asp Glu
 165 170

<210> 1322

<211> 209

<212> PRT

<213> Homo sapiens

<400> 1322

Lys Thr Gln Ala Ala Ser Val Glu Ala Val Lys Met Leu Asp Glu Ile
 1 5 10 15
 Leu Leu Gln Leu Ser Ala Ser Val Pro Val Asp Val Met Pro Gly Glu
 20 25 30

1365

Phe Asp Pro Thr Asn Tyr Thr Leu Pro Gln Gln Pro Leu His Pro Cys
 35 40 45
 Met Phe Pro Leu Ala Thr Ala Tyr Ser Thr Leu Gln Leu Val Thr Asn
 50 55 60
 Pro Tyr Gln Ala Thr Ile Asp Gly Val Arg Phe Leu Gly Thr Ser Gly
 65 70 75 80
 Gln Asn Val Ser Asp Ile Phe Arg Tyr Ser Ser Met Glu Asp His Leu
 85 90 95
 Glu Ile Leu Glu Trp Thr Leu Arg Val Arg His Ile Ser Pro Thr Ala
 100 105 110
 Pro Asp Thr Leu Gly Cys Tyr Pro Phe Tyr Lys Thr Asp Pro Phe Ile
 115 120 125
 Phe Pro Glu Cys Pro His Val Tyr Phe Cys Gly Asn Thr Pro Ser Phe
 130 135 140
 Gly Ser Lys Ile Ile Arg Gly Pro Glu Asp Gln Thr Val Leu Leu Val
 145 150 155 160
 Thr Val Pro Asp Phe Ser Ala Thr Gln Thr Ala Cys Leu Val Asn Leu
 165 170 175
 Arg Ser Leu Ala Cys Gln Pro Ile Ser Phe Ser Gly Phe Gly Ala Glu
 180 185 190
 Asp Asp Asp Leu Gly Gly Leu Gly Trp Ala Pro Asp Ser Lys Lys Trp
 195 200 205
 Phe

<210> 1323

<211> 291

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

1366

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1323

Asn	Asn	Val	Ala	Thr	Thr	His	Glu	Pro	Ala	Ser	Val	Pro	Ala	Pro	Gln
1				5					10					15	
Gly	Asp	Leu	Leu	Ser	Gly	Ala	Glu	Pro	Glu	Gly	Gly	Asn	Xaa	Ala	Arg
		20						25					30		
Arg	Pro	Pro	Gly	Ala	Arg	Glu	Gln	Pro	Gln	Ser	Pro	Pro	Pro	Ala	Arg
		35					40					45			
Gly	Gly	Ala	Gly	Ser	Leu	Ala	Thr	Xaa	Ala	Pro	Pro	Ser	Ser	Gly	Leu
	50					55					60				
Ser	Cys	Pro	Gly	Cys	Phe	Arg	Leu	Arg	Leu	Trp	Met	Leu	Arg	Leu	Ser
65				70					75					80	
Glu	Arg	Asn	Met	Lys	Val	Leu	Leu	Ala	Ala	Ala	Leu	Ile	Ala	Gly	Ser
			85					90						95	
Val	Phe	Phe	Leu	Leu	Pro	Gly	Pro	Ser	Ala	Ala	Asp	Glu	Lys	Lys	
		100					105					110			
Lys	Gly	Pro	Lys	Val	Thr	Val	Lys	Val	Tyr	Phe	Asp	Leu	Arg	Ile	Gly
	115						120					125			
Asp	Glu	Asp	Val	Gly	Arg	Val	Ile	Phe	Gly	Leu	Phe	Gly	Lys	Thr	Val
	130					135					140				
Pro	Lys	Thr	Val	Asp	Asn	Phe	Val	Ala	Leu	Ala	Thr	Gly	Glu	Lys	Gly
145					150					155				160	
Phe	Gly	Tyr	Lys	Asn	Ser	Lys	Phe	His	Arg	Val	Ile	Lys	Asp	Phe	Met
			165						170					175	
Ile	Gln	Gly	Gly	Asp	Phe	Thr	Arg	Gly	Asp	Gly	Thr	Gly	Gly	Lys	Ser
		180						185					190		
Ile	Tyr	Gly	Glu	Arg	Phe	Pro	Asp	Glu	Asn	Phe	Lys	Leu	Lys	His	Tyr
	195						200					205			
Gly	Pro	Gly	Trp	Val	Ser	Met	Ala	Asn	Ala	Gly	Lys	Asp	Thr	Asn	Gly
	210					215					220				
Ser	Gln	Phe	Phe	Ile	Thr	Thr	Val	Lys	Thr	Ala	Trp	Leu	Asp	Gly	Lys
225				230						235				240	
His	Val	Val	Phe	Gly	Lys	Val	Leu	Glu	Gly	Met	Glu	Val	Val	Arg	Lys
			245					250						255	

1367

Val Glu Ser Thr Lys Thr Asp Ser Arg Asp Lys Pro Leu Lys Asp Val
 260 265 270

Ile Ile Ala Asp Cys Gly Lys Ile Glu Val Glu Lys Pro Phe Ala Ile
 275 280 285

Ala Lys Glu
 290

<210> 1324

<211> 150

<212> PRT

<213> Homo sapiens

<400> 1324

Glu Cys Leu Val Arg Ser Lys Asn Ile Thr Gln Ile Val Gly His Ser
 1 5 10 15

Gly Cys Glu Ala Lys Ser Ile Gln Asn Arg Ala Cys Leu Gly Gln Cys
 20 25 30

Phe Ser Tyr Ser Val Pro Asn Thr Phe Pro Gln Ser Thr Glu Ser Leu
 35 40 45

Val His Cys Asp Ser Cys Met Pro Ala Gln Ser Met Trp Glu Ile Val
 50 55 60

Thr Leu Glu Cys Pro Gly His Glu Glu Val Pro Arg Val Asp Lys Leu
 65 70 75 80

Val Glu Lys Ile Leu His Cys Ser Cys Gln Ala Cys Gly Lys Glu Pro
 85 90 95

Ser His Glu Gly Leu Ser Val Tyr Val Gln Gly Glu Asp Gly Pro Gly
 100 105 110

Ser Gln Pro Gly Thr His Pro His Pro His Pro His Pro His Pro Gly
 115 120 125

Gly Gln Thr Pro Glu Pro Glu Asp Pro Pro Gly Ala Pro His Thr Glu
 130 135 140

Glu Glu Gly Ala Glu Asp
 145 150

<210> 1325

<211> 56

1368

<212> PRT

<213> Homo sapiens

<400> 1325

Glu Ile Asn Ile Ser Arg Lys Gly Glu Ser Arg Phe Tyr Lys Met Ser
 1 5 10 15

Gln Leu Ser Asn Ile Trp Gly Ser Asp Ser Phe Phe Val Arg Thr Phe
 20 25 30

Glu Thr Ser Lys Gln Pro Leu Phe Leu Lys Asn Ser Gly Phe Thr Leu
 35 40 45

Thr His Val Ser Phe Thr Pro Phe
 50 55

<210> 1326

<211> 486

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (438)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (447)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1326

Arg Leu Pro Leu Gly Ser Arg Ser Pro Ser Glu Ala Ala Gly Ala Glu
 1 5 10 15

Thr Ala Pro Ser Ser Leu Ser Ala Ala Met Thr Pro Leu Val Ser Arg
 20 25 30

Leu Xaa Arg Leu Trp Ala Ile Met Arg Lys Pro Arg Ala Ala Val Gly
 35 40 45

Ser Gly His Arg Lys Gln Ala Ala Ser Gln Glu Gly Arg Gln Lys His
 50 55 60

1369

Ala Lys Asn Asn Ser Gln Ala Lys Pro Ser Ala Cys Asp Gly Leu Ala
 65 70 75 80

Arg Gln Pro Glu Glu Val Val Leu Gln Ala Ser Val Ser Ser Tyr His
 85 90 95

Leu Phe Arg Asp Val Ala Glu Val Thr Ala Phe Arg Gly Ser Leu Leu
 100 105 110

Ser Trp Tyr Asp Gln Glu Lys Arg Asp Leu Pro Trp Arg Arg Arg Ala
 115 120 125

Glu Asp Glu Met Asp Leu Asp Arg Arg Ala Tyr Ala Val Trp Val Ser
 130 135 140

Glu Val Met Leu Gln Gln Thr Gln Val Ala Thr Val Ile Asn Tyr Tyr
 145 150 155 160

Thr Gly Trp Met Gln Lys Trp Pro Thr Leu Gln Asp Leu Ala Ser Ala
 165 170 175

Ser Leu Glu Glu Val Asn Gln Leu Trp Ala Gly Leu Gly Tyr Tyr Ser
 180 185 190

Arg Gly Arg Arg Leu Gln Glu Gly Ala Arg Lys Val Val Glu Glu Leu
 195 200 205

Gly Gly His Met Pro Arg Thr Ala Glu Thr Leu Gln Gln Leu Leu Pro
 210 215 220

Gly Val Gly Arg Tyr Thr Ala Gly Ala Ile Ala Ser Ile Ala Phe Gly
 225 230 235 240

Gln Ala Thr Gly Val Val Asp Gly Asn Val Ala Arg Val Leu Cys Arg
 245 250 255

Val Arg Ala Ile Gly Ala Asp Pro Ser Ser Thr Leu Val Ser Gln Gln
 260 265 270

Leu Trp Gly Leu Ala Gln Gln Leu Val Asp Pro Ala Arg Pro Gly Asp
 275 280 285

Phe Asn Gln Ala Ala Met Glu Leu Gly Ala Thr Val Cys Thr Pro Gln
 290 295 300

Arg Pro Leu Cys Ser Gln Cys Pro Val Glu Ser Leu Cys Arg Ala Arg
 305 310 315 320

Gln Arg Val Glu Gln Glu Gln Leu Leu Ala Ser Gly Ser Leu Ser Gly
 325 330 335

1370

Ser Pro Asp Val Glu Glu Cys Ala Pro Asn Thr Gly Gln Cys His Leu
340 345 350

Cys Leu Pro Pro Ser Glu Pro Trp Asp Gln Thr Leu Gly Val Val Asn
355 360 365

Phe Pro Arg Lys Ala Ser Arg Lys Pro Pro Arg Glu Glu Ser Ser Ala
370 375 380

Thr Cys Val Leu Glu Gln Pro Gly Ala Leu Gly Ala Gln Ile Leu Leu
385 390 395 400

Val Gln Arg Pro Asn Ser Gly Leu Leu Ala Gly Leu Trp Glu Phe Pro
405 410 415

Ser Val Thr Trp Glu Pro Ser Glu Gln Leu Gln Arg Lys Ala Leu Leu
420 425 430

Gln Glu Leu Gln Arg Xaa Ala Gly Pro Leu Pro Ala Thr His Xaa Arg
435 440 445

His Leu Gly Glu Val Val His Thr Phe Ser His Ile Lys Leu Thr Tyr
450 455 460

Gln Val Tyr Gly Leu Ala Leu Glu Gly Gln Thr Pro Val Thr Thr Val
465 470 475 480

Pro Pro Gly Ala Arg Cys
485

<210> 1327

<211> 88

<212> PRT

<213> Homo sapiens

<400> 1327

Lys Thr Leu Phe Thr Tyr Ser Phe His Gly Tyr Asn Thr Leu Ala Asp
1 5 10 15

Phe Leu Leu Ala Leu Gly Ala Met Ile Leu Ile Thr Phe Cys Lys Val
20 25 30

Thr Asn Val Ile His Ser Thr Leu Cys Gly Ser His Leu Phe Arg Leu
35 40 45

Met Cys Phe Gly Glu Arg Lys Lys Phe Leu Ala Glu Tyr Tyr Phe Glu
50 55 60

Leu Ser Arg Thr Leu Ser His Gln Arg Gln Phe Phe Ser Val Gln Phe

1371

65

70

75

80

Pro Ile Pro Asp Asn Leu Leu Lys
85

<210> 1328

<211> 424

<212> PRT

<213> Homo sapiens

<400> 1328

Ile Arg Val Ser Phe Met Asn Asn Gln Lys Gln Gln Lys Pro Thr Leu
1 5 10 15

Ser Gly Gln Arg Phe Lys Thr Arg Lys Arg Asp Glu Lys Glu Arg Phe
20 25 30

Asp Pro Thr Gln Phe Gln Asp Cys Ile Ile Gln Gly Leu Thr Glu Thr
35 40 45

Gly Thr Asp Leu Glu Ala Val Ala Lys Phe Leu Asp Ala Ser Gly Ala
50 55 60

Lys Leu Asp Tyr Arg Arg Tyr Ala Glu Thr Leu Phe Asp Ile Leu Val
65 70 75 80

Ala Gly Gly Met Leu Ala Pro Gly Gly Thr Leu Ala Asp Asp Met Met
85 90 95

Arg Thr Asp Val Cys Val Phe Ala Ala Gln Glu Asp Leu Glu Thr Met
100 105 110

Gln Ala Phe Ala Gln Val Phe Asn Lys Leu Ile Arg Arg Tyr Lys Tyr
115 120 125

Leu Glu Lys Gly Phe Glu Asp Glu Val Lys Lys Leu Leu Leu Phe Leu
130 135 140

Lys Gly Phe Ser Glu Ser Glu Arg Asn Lys Leu Ala Met Leu Thr Gly
145 150 155 160

Val Leu Leu Ala Asn Gly Thr Leu Asn Ala Ser Ile Leu Asn Ser Leu
165 170 175

Tyr Asn Glu Asn Leu Val Lys Glu Gly Val Ser Ala Ala Phe Ala Val
180 185 190

Lys Leu Phe Lys Ser Trp Ile Asn Glu Lys Asp Ile Asn Ala Val Ala
195 200 205

1372

Ala Ser Leu Arg Lys Val Ser Met Asp Asn Arg Leu Met Glu Leu Phe
 210 215 220
 Pro Ala Asn Lys Gln Ser Val Glu His Phe Thr Lys Tyr Phe Thr Glu
 225 230 235 240
 Ala Gly Leu Lys Glu Leu Ser Glu Tyr Val Arg Asn Gln Gln Thr Ile
 245 250 255
 Gly Ala Arg Lys Glu Leu Gln Lys Glu Leu Gln Glu Gln Met Ser Arg
 260 265 270
 Gly Asp Pro Phe Lys Asp Ile Ile Leu Tyr Val Lys Glu Glu Met Lys
 275 280 285
 Lys Asn Asn Ile Pro Glu Pro Val Val Ile Gly Ile Val Trp Ser Ser
 290 295 300
 Val Met Ser Thr Val Glu Trp Asn Lys Lys Glu Glu Leu Val Ala Glu
 305 310 315 320
 Gln Ala Ile Lys His Leu Lys Gln Tyr Ser Pro Leu Leu Ala Ala Phe
 325 330 335
 Thr Thr Gln Gly Gln Ser Glu Leu Thr Leu Leu Leu Lys Ile Gln Glu
 340 345 350
 Tyr Cys Tyr Asp Asn Ile His Phe Met Lys Ala Phe Gln Lys Ile Val
 355 360 365
 Val Leu Phe Tyr Lys Ala Glu Val Leu Ser Glu Glu Pro Ile Leu Lys
 370 375 380
 Trp Tyr Lys Asp Ala His Val Ala Lys Gly Lys Ser Val Phe Leu Glu
 385 390 395 400
 Gln Met Lys Lys Phe Val Glu Trp Leu Lys Asn Ala Glu Glu Glu Ser
 405 410 415
 Glu Ser Glu Ala Glu Glu Gly Asp
 420

<210> 1329

<211> 558

<212> PRT

<213> Homo sapiens

<400> 1329

1373

Trp Tyr Cys Ser Val Gly Leu Ala Ser Thr Ala Gly Glu Gln Ala Ala
 1 5 10 15
 Ala Val Ala Ala Ala Phe Ser Leu His Pro Asp Tyr Ala Met Leu Gly
 20 25 30
 Phe Val Gly Arg Val Ala Ala Ala Pro Ala Ser Gly Ala Leu Arg Arg
 35 40 45
 Leu Thr Pro Ser Ala Ser Leu Pro Pro Ala Gln Leu Leu Arg Ala
 50 55 60
 Ala Pro Thr Ala Val His Pro Val Arg Asp Tyr Ala Ala Gln Thr Ser
 65 70 75 80
 Pro Ser Pro Lys Ala Gly Ala Ala Thr Gly Arg Ile Val Ala Val Ile
 85 90 95
 Gly Ala Val Val Asp Val Gln Phe Asp Glu Gly Leu Pro Pro Ile Leu
 100 105 110
 Asn Ala Leu Glu Val Gln Gly Arg Glu Thr Arg Leu Val Leu Glu Val
 115 120 125
 Ala Gln His Leu Gly Glu Ser Thr Val Arg Thr Ile Ala Met Asp Gly
 130 135 140
 Thr Glu Gly Leu Val Arg Gly Gln Lys Val Leu Asp Ser Gly Ala Pro
 145 150 155 160
 Ile Lys Ile Pro Val Gly Pro Glu Thr Leu Gly Arg Ile Met Asn Val
 165 170 175
 Ile Gly Glu Pro Ile Asp Glu Arg Gly Pro Ile Lys Thr Lys Gln Phe
 180 185 190
 Ala Pro Ile His Ala Glu Ala Pro Glu Phe Met Glu Met Ser Val Glu
 195 200 205
 Gln Glu Ile Leu Val Thr Gly Ile Lys Val Val Asp Leu Leu Ala Pro
 210 215 220
 Tyr Ala Lys Gly Gly Lys Ile Gly Leu Phe Gly Gly Ala Gly Val Gly
 225 230 235 240
 Lys Thr Val Leu Ile Met Glu Leu Ile Asn Asn Val Ala Lys Ala His
 245 250 255
 Gly Gly Tyr Ser Val Phe Ala Gly Val Gly Glu Arg Thr Arg Glu Gly
 260 265 270

1374

Asn Asp Leu Tyr His Glu Met Ile Glu Ser Gly Val Ile Asn Leu Lys
 275 280 285

Asp Ala Thr Ser Lys Val Ala Leu Val Tyr Gly Gln Met Asn Glu Pro
 290 295 300

Pro Gly Ala Arg Ala Arg Val Ala Leu Thr Gly Leu Thr Val Ala Glu
 305 310 315 320

Tyr Phe Arg Asp Gln Glu Gly Gln Asp Val Leu Leu Phe Ile Asp Asn
 325 330 335

Ile Phe Arg Phe Thr Gln Ala Gly Ser Glu Val Ser Ala Leu Leu Gly
 340 345 350

Arg Ile Pro Ser Ala Val Gly Tyr Gln Pro Thr Leu Ala Thr Asp Met
 355 360 365

Gly Thr Met Gln Glu Arg Ile Thr Thr Thr Lys Lys Gly Ser Ile Thr
 370 375 380

Ser Val Gln Ala Ile Tyr Val Pro Ala Asp Asp Leu Thr Asp Pro Ala
 385 390 395 400

Pro Ala Thr Thr Phe Ala His Leu Asp Ala Thr Thr Val Leu Ser Arg
 405 410 415

Ala Ile Ala Glu Leu Gly Ile Tyr Pro Ala Val Asp Pro Leu Asp Ser
 420 425 430

Thr Ser Arg Ile Met Asp Pro Asn Ile Val Gly Ser Glu His Tyr Asp
 435 440 445

Val Ala Arg Gly Val Gln Lys Ile Leu Gln Asp Tyr Lys Ser Leu Gln
 450 455 460

Asp Ile Ile Ala Ile Leu Gly Met Asp Glu Leu Ser Glu Glu Asp Lys
 465 470 475 480

Leu Thr Val Ser Arg Ala Arg Lys Ile Gln Arg Phe Leu Ser Gln Pro
 485 490 495

Phe Gln Val Ala Glu Val Phe Thr Gly His Met Gly Lys Leu Val Pro
 500 505 510

Leu Lys Glu Thr Ile Lys Gly Phe Gln Gln Ile Leu Ala Gly Glu Tyr
 515 520 525

Asp His Leu Pro Glu Gln Ala Phe Tyr Met Val Gly Pro Ile Glu Glu
 530 535 540

1375

Ala Val Ala Lys Ala Asp Lys Leu Ala Glu Glu His Ser Ser
 545 550 555

<210> 1330

<211> 134

<212> PRT

<213> Homo sapiens

<400> 1330

Thr Thr Pro Leu Ser Gln Ile Val Ala Arg Gly Leu Ile Ala Arg Gly
 1 5 10 15

Val Pro Gly Ala Ile Val Asn Val Ser Ser Gln Cys Ser Gln Arg Ala
 20 25 30

Val Thr Asn His Ser Val Tyr Cys Ser Thr Lys Gly Ala Leu Asp Met
 35 40 45

Leu Thr Lys Val Met Ala Leu Glu Leu Gly Pro His Lys Ile Arg Val
 50 55 60

Asn Ala Val Asn Pro Thr Val Val Met Thr Ser Met Gly Gln Ala Thr
 65 70 75 80

Trp Ser Asp Pro His Lys Ala Lys Thr Met Leu Asn Arg Ile Pro Leu
 85 90 95

Gly Lys Phe Ala Glu Val Glu His Val Val Asn Ala Ile Leu Phe Leu
 100 105 110

Leu Ser Asp Arg Ser Gly Met Thr Thr Gly Ser Thr Leu Pro Val Glu
 115 120 125

Gly Gly Phe Trp Ala Cys
 130

<210> 1331

<211> 188

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

1376

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1331

Ile Arg His Glu Pro Ser Arg Cys Arg Ser Arg Thr Ala Ala Val Cys
 1 5 10 15

Ser Pro Pro Pro Cys Pro Pro Trp Arg Arg Pro Arg Gly Pro Trp Thr
 20 25 30

Ala Lys Ser Pro Pro Trp Pro Pro Ala Arg Pro Arg Trp Gln Trp Thr
 35 40 45

Arg Ala Leu Asn Ser Thr Ala Ala Pro Pro Arg Ser Pro Pro Ala Pro
 50 55 60

Cys Pro Cys Arg Pro Asn Ser Ala Arg Arg Lys Arg Arg Pro Pro Ala
 65 70 75 80

Asn Cys Arg Ala Ser Ser Gly Trp Leu Ala Ala Trp Lys Pro Ser Arg
 85 90 95

Thr Gly Pro Ala Ala Arg Pro Arg Arg Pro Val Pro Asp Thr Ser Phe
 100 105 110

His Ser Ser Pro Val Gln Ala Ala Val His Phe Val Gly Tyr Lys Ile
 115 120 125

Asn His Gly Pro Ala Met Xaa Leu Xaa Phe Leu Leu Gln Leu Arg Leu
 130 135 140

Gly Arg Gly Pro Gly Leu Pro Arg Glu Asn Val Leu Glu Thr Ala Pro
 145 150 155 160

Val Phe Leu Ala Trp Phe Ile Cys Pro Gly Ser Gly Ser Asp Ser Gly
 165 170 175

Gly Ser Glu Thr Ser Val Ala Leu Ser Tyr Trp Gly
 180 185

<210> 1332

<211> 237

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

1377

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1332

Asp Asp Arg Arg Xaa Asp Ala Glu Ala Asp Lys Met Ala Ala Ala Ala
 1 5 10 15

Val Gln Gly Gly Arg Ser Gly Gly Ser Gly Gly Cys Ser Gly Ala Gly
 20 25 30

Gly Ala Ser Asn Cys Gly Thr Gly Ser Gly Arg Ser Gly Leu Leu Asp
 35 40 45

Lys Trp Lys Ile Asp Asp Lys Pro Val Lys Ile Asp Lys Trp Asp Gly
 50 55 60

Ser Ala Val Lys Asn Ser Leu Asp Asp Ser Ala Lys Lys Val Leu Leu
 65 70 75 80

Glu Lys Tyr Lys Tyr Val Glu Asn Phe Gly Leu Ile Asp Gly Arg Leu
 85 90 95

Thr Ile Cys Thr Ile Ser Cys Phe Phe Ala Ile Val Ala Leu Ile Trp
 100 105 110

Asp Tyr Met His Pro Phe Pro Glu Ser Lys Pro Val Leu Ala Leu Cys
 115 120 125

Val Ile Ser Tyr Phe Val Met Met Gly Ile Leu Thr Ile Tyr Thr Ser
 130 135 140

Tyr Lys Glu Lys Ser Ile Phe Leu Val Ala His Arg Lys Asp Pro Thr
 145 150 155 160

Gly Met Asp Pro Asp Asp Ile Trp Gln Leu Ser Ser Ser Leu Lys Arg
 165 170 175

Phe Asp Asp Lys Tyr Thr Leu Lys Leu Thr Phe Ile Ser Gly Arg Thr
 180 185 190

Lys Gln Gln Arg Glu Ala Glu Phe Thr Lys Ser Ile Ala Lys Phe Phe
 195 200 205

Asp His Ser Gly Thr Leu Val Met Asp Ala Tyr Glu Pro Glu Ile Ser
 210 215 220

Arg Leu His Asp Ser Leu Ala Ile Glu Arg Lys Ile Lys
 225 230 235

<210> 1333

1378

<211> 56

<212> PRT

<213> Homo sapiens

<400> 1333

Thr Thr Ala Asn Pro Leu Lys Thr Arg Gly Leu Ala Leu Val Ala Gln
 1 5 10 15

Pro Lys Val Ala Leu Gln Ile Phe Glu Arg Ala Thr Ala Thr Phe Leu
 20 25 30

Pro Ser Gln Leu Ser Leu Asp Phe Ser Glu Ser Gly Tyr Cys Tyr Pro
 35 40 45

Asn Val Cys Leu Tyr Glu Cys Ile
 50 55

<210> 1334

<211> 207

<212> PRT

<213> Homo sapiens

<400> 1334

Ser His Pro Ala Cys Ala Lys Val Glu Tyr Ala Tyr Ser Asp Asn Ser
 1 5 10 15

Leu Asp Pro Asp Asp Glu Asp Ser Asp Tyr His Gln Glu Ala Tyr Lys
 20 25 30

Glu Ser Tyr Lys Asp Arg Arg Arg Arg Ala His Thr Gln Ala Glu Gln
 35 40 45

Lys Arg Arg Asp Ala Ile Lys Arg Gly Tyr Asp Asp Leu Gln Thr Ile
 50 55 60

Val Pro Thr Cys Gln Gln Gln Asp Phe Ser Ile Gly Ser Gln Lys Leu
 65 70 75 80

Ser Lys Ala Ile Val Leu Gln Lys Thr Ile Asp Tyr Ile Gln Phe Leu
 85 90 95

His Lys Glu Lys Lys Lys Gln Glu Glu Glu Val Ser Thr Leu Arg Lys
 100 105 110

Asp Val Thr Ala Leu Lys Ile Met Lys Val Asn Tyr Glu Gln Ile Val
 115 120 125

Lys Ala His Gln Asp Asn Pro His Glu Gly Glu Asp Gln Val Ser Asp
 130 135 140

1379

Gln Val Lys Phe Asn Val Phe Gln Gly Ile Met Asp Ser Leu Phe Gln
 145 150 155 160

Ser Phe Asn Ala Ser Ile Ser Val Ala Ser Phe Gln Glu Leu Ser Ala
 165 170 175

Cys Val Phe Ser Trp Ile Glu Glu His Cys Lys Pro Gln Thr Leu Arg
 180 185 190

Glu Ile Val Ile Gly Val Leu His Gln Leu Lys Asn Gln Leu Tyr
 195 200 205

<210> 1335

<211> 1005

<212> PRT

<213> Homo sapiens

<400> 1335

Arg Val Leu Gln Tyr Val Val Pro Glu Val Lys Asp Leu Tyr Asn Trp
 1 5 10 15

Leu Glu Val Glu Phe Asn Pro Leu Lys Leu Cys Glu Arg Val Thr Lys
 20 25 30

Val Leu Asn Trp Val Arg Glu Gln Pro Glu Lys Glu Pro Glu Leu Gln
 35 40 45

Gln Tyr Val Pro Gln Leu Gln Asn Asn Thr Ile Leu Arg Leu Leu Gln
 50 55 60

Gln Val Ser Gln Ile Tyr Gln Ser Ile Glu Phe Ser Arg Leu Thr Ser
 65 70 75 80

Leu Val Pro Phe Val Asp Ala Phe Gln Leu Glu Arg Ala Ile Val Asp
 85 90 95

Ala Ala Arg His Cys Asp Leu Gln Val Arg Ile Asp His Thr Ser Arg
 100 105 110

Thr Leu Ser Phe Gly Ser Asp Leu Asn Tyr Ala Thr Arg Glu Asp Ala
 115 120 125

Pro Ile Gly Pro His Leu Gln Ser Met Pro Ser Glu Gln Ile Arg Asn
 130 135 140

Gln Leu Thr Ala Met Ser Ser Val Leu Ala Lys Ala Leu Glu Val Ile
 145 150 155 160

1380

Lys Pro Ala His Ile Leu Gln Glu Lys Glu Glu Gln His Gln Leu Ala
 165 170 175
 Val Thr Ala Tyr Leu Lys Asn Ser Arg Lys Glu His Gln Arg Ile Leu
 180 185 190
 Ala Arg Arg Gln Thr Ile Glu Glu Arg Lys Glu Arg Leu Glu Ser Leu
 195 200 205
 Asn Ile Gln Arg Glu Lys Glu Glu Leu Glu Gln Arg Glu Ala Glu Leu
 210 215 220
 Gln Lys Val Arg Lys Ala Glu Glu Glu Arg Leu Arg Gln Glu Ala Lys
 225 230 235 240
 Glu Arg Glu Lys Glu Arg Ile Leu Gln Glu His Glu Gln Ile Lys Lys
 245 250 255
 Lys Thr Val Arg Glu Arg Leu Glu Gln Ile Lys Lys Thr Glu Leu Gly
 260 265 270
 Ala Lys Ala Phe Lys Asp Ile Asp Ile Glu Asp Leu Glu Glu Leu Asp
 275 280 285
 Pro Asp Phe Ile Met Ala Lys Gln Val Glu Gln Leu Glu Lys Glu Lys
 290 295 300
 Lys Glu Leu Gln Glu Arg Leu Lys Asn Gln Glu Lys Lys Ile Asp Tyr
 305 310 315 320
 Phe Glu Arg Ala Lys Arg Leu Glu Glu Ile Pro Leu Ile Lys Ser Ala
 325 330 335
 Tyr Glu Glu Gln Arg Ile Lys Asp Met Asp Leu Trp Glu Gln Gln Glu
 340 345 350
 Glu Glu Arg Ile Thr Thr Met Gln Leu Glu Arg Glu Lys Ala Leu Glu
 355 360 365
 His Lys Asn Arg Met Ser Arg Met Leu Glu Asp Arg Asp Leu Phe Val
 370 375 380
 Met Arg Leu Lys Ala Ala Arg Gln Ser Val Tyr Glu Glu Lys Leu Lys
 385 390 395 400
 Gln Phe Glu Glu Arg Leu Ala Glu Glu Arg His Asn Arg Leu Glu Glu
 405 410 415
 Arg Lys Arg Gln Arg Lys Glu Glu Arg Arg Ile Thr Tyr Tyr Arg Glu
 420 425 430

1381

Lys Glu Glu Glu Glu Gln Arg Arg Ala Glu Glu Gln Met Leu Lys Glu
 435 440 445

Arg Glu Glu Arg Glu Arg Ala Glu Arg Ala Lys Arg Glu Glu Glu Leu
 450 455 460

Arg Glu Tyr Gln Glu Arg Val Lys Lys Leu Glu Glu Val Glu Arg Lys
 465 470 475 480

Lys Arg Gln Arg Glu Leu Glu Ile Glu Glu Arg Glu Arg Arg Arg Glu
 485 490 495

Glu Glu Arg Arg Leu Gly Asp Ser Ser Leu Ser Arg Lys Asp Ser Arg
 500 505 510

Trp Gly Asp Arg Asp Ser Glu Gly Thr Trp Arg Lys Gly Pro Glu Ala
 515 520 525

Asp Ser Glu Trp Arg Arg Gly Pro Pro Glu Lys Glu Trp Arg Arg Gly
 530 535 540

Glu Gly Arg Asp Glu Asp Arg Ser His Arg Arg Asp Glu Glu Arg Pro
 545 550 555 560

Arg Arg Leu Gly Asp Asp Glu Asp Arg Glu Pro Ser Leu Arg Pro Asp
 565 570 575

Asp Asp Arg Val Pro Arg Arg Gly Met Asp Asp Asp Arg Gly Pro Arg
 580 585 590

Arg Gly Pro Glu Glu Asp Arg Phe Ser Arg Arg Gly Ala Asp Asp Asp
 595 600 605

Arg Pro Ser Trp Arg Asn Thr Asp Asp Asp Arg Pro Pro Arg Arg Ile
 610 615 620

Ala Asp Glu Asp Arg Gly Asn Trp Arg His Ala Asp Asp Asp Arg Pro
 625 630 635 640

Pro Arg Arg Gly Leu Asp Glu Asp Arg Gly Ser Trp Arg Thr Ala Asp
 645 650 655

Glu Asp Arg Gly Pro Arg Arg Gly Met Asp Asp Asp Arg Gly Pro Arg
 660 665 670

Arg Gly Gly Ala Asp Asp Glu Arg Ser Ser Trp Arg Asn Ala Asp Asp
 675 680 685

Asp Arg Gly Pro Arg Arg Gly Leu Asp Asp Asp Arg Gly Pro Arg Arg
 690 695 700

1382

Gly Met Asp Asp Asp Arg Gly Pro Arg Arg Gly Met Asp Asp Asp Arg
 705 710 715 720

Gly Pro Arg Arg Gly Met Asp Asp Asp Arg Gly Pro Arg Arg Gly Leu
 725 730 735

Asp Asp Asp Arg Gly Pro Trp Arg Asn Ala Asp Asp Asp Arg Ile Pro
 740 745 750

Arg Arg Gly Ala Glu Asp Asp Arg Gly Pro Trp Arg Asn Met Asp Asp
 755 760 765

Asp Arg Leu Ser Arg Arg Ala Asp Asp Asp Arg Phe Pro Arg Arg Gly
 770 775 780

Asp Asp Ser Arg Pro Gly Pro Trp Arg Pro Leu Val Lys Pro Gly Gly
 785 790 795 800

Trp Arg Glu Lys Glu Lys Ala Arg Glu Glu Ser Trp Gly Pro Pro Arg
 805 810 815

Glu Ser Arg Pro Ser Glu Glu Arg Glu Trp Asp Arg Glu Lys Glu Arg
 820 825 830

Asp Arg Asp Asn Gln Asp Arg Glu Glu Asn Asp Lys Asp Pro Glu Arg
 835 840 845

Glu Arg Asp Arg Glu Arg Asp Val Asp Arg Glu Asp Arg Phe Arg Arg
 850 855 860

Pro Arg Asp Glu Gly Gly Trp Arg Arg Gly Pro Ala Glu Glu Ser Ser
 865 870 875 880

Ser Trp Arg Asp Ser Ser Arg Arg Asp Asp Arg Asp Arg Asp Arg
 885 890 895

Arg Arg Glu Arg Asp Asp Arg Arg Asp Leu Arg Glu Arg Arg Asp Leu
 900 905 910

Arg Asp Asp Arg Asp Arg Arg Gly Pro Pro Leu Arg Ser Glu Arg Glu
 915 920 925

Glu Val Ser Ser Trp Arg Arg Ala Asp Asp Arg Lys Asp Asp Arg Val
 930 935 940

Glu Glu Arg Asp Pro Pro Arg Arg Val Pro Pro Pro Ala Leu Ser Arg
 945 950 955 960

Asp Arg Glu Arg Asp Arg Asp Arg Glu Arg Glu Gly Glu Lys Glu Lys
 965 970 975

1383

Ala Ser Trp Arg Ala Glu Lys Asp Arg Glu Ser Leu Arg Arg Thr Lys
980 985 990

Asn Glu Thr Asp Glu Asp Gly Trp Thr Thr Val Arg Arg
995 1000 1005

<210> 1336

<211> 231

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1336

Ala Gly Ile His Pro Met Asn Ser Ile Ser Ser Leu Asp Arg Thr Arg
1 5 10 15

1384

Met Met Thr Pro Phe Met Gly Ile Ser Pro Leu Pro Gly Gly Glu Arg
 20 25 30
 Phe Pro Tyr Pro Ser Phe His Trp Asp Pro Ile Arg Asp Pro Leu Arg
 35 40 45
 Asp Pro Tyr Xaa Glu Leu Asp Ile His Arg Arg Asp Pro Leu Gly Xaa
 50 55 60
 Asp Phe Leu Leu Arg Asn Asp Pro Xaa His Arg Leu Ser Thr Xaa Arg
 65 70 75 80
 Leu Xaa Xaa Ala Asp Arg Ser Phe Arg Asp Arg Glu Pro His Asp Tyr
 85 90 95
 Ser His His His His His His His His Pro Leu Ser Val Asp Pro Arg
 100 105 110
 Arg Glu His Glu Arg Xaa Gly His Leu Asp Glu Arg Glu Arg Leu His
 115 120 125
 Met Leu Arg Glu Asp Tyr Glu His Thr Arg Leu His Ser Val His Pro
 130 135 140
 Ala Ser Leu Asp Gly His Leu Pro His Pro Ser Leu Ile Thr Pro Gly
 145 150 155 160
 Leu Pro Ser Met His Tyr Pro Arg Ile Ser Pro Thr Ala Gly Asn Gln
 165 170 175
 Asn Gly Leu Leu Asn Lys Thr Pro Pro Thr Ala Ala Leu Ser Ala Pro
 180 185 190
 Pro Pro Leu Ile Ser Thr Leu Gly Gly Arg Pro Val Ser Pro Arg Arg
 195 200 205
 Thr Thr Pro Leu Ser Ala Glu Ile Arg Glu Arg Pro Pro Ser His Thr
 210 215 220
 Leu Lys Asp Ile Glu Ala Arg
 225 230

<210> 1337

<211> 155

<212> PRT

<213> Homo sapiens

<400> 1337

1385

Gly Val Glu Gly Leu Lys Asp Ala Gln Met Arg Asp Leu Leu Ser Pro
 1 5 10 15
 Pro Thr Asp Asn Arg Pro Gly Gln Met Asp Asn Arg Ser Lys Leu Arg
 20 25 30
 Asn Ile Val Glu Leu Arg Leu Ala Gly Leu Asp Ile Thr Asp Ala Ser
 35 40 45
 Leu Arg Leu Ile Ile Arg His Met Pro Leu Leu Ser Lys Leu His Leu
 50 55 60
 Ser Tyr Cys Asn His Val Thr Asp Gln Ser Ile Asn Leu Leu Thr Ala
 65 70 75 80
 Val Gly Thr Thr Thr Arg Asp Ser Leu Thr Glu Ile Asn Leu Ser Asp
 85 90 95
 Cys Asn Lys Val Thr Asp Gln Cys Leu Ser Phe Phe Lys Arg Cys Gly
 100 105 110
 Asn Ile Cys His Ile Asp Leu Arg Tyr Cys Lys Gln Val Thr Lys Glu
 115 120 125
 Gly Cys Glu Gln Phe Ile Ala Glu Met Ser Val Ser Val Gln Phe Gly
 130 135 140
 Gln Val Glu Glu Lys Leu Leu Gln Lys Leu Ser
 145 150 155

<210> 1338

<211> 328

<212> PRT

<213> Homo sapiens

<400> 1338

Asn Asn Ser Gly Val Met Pro Glu Met Pro Glu Asp Met Glu Gln Glu
 1 5 10 15
 Glu Val Asn Ile Pro Asn Arg Arg Val Leu Val Thr Gly Ala Thr Gly
 20 25 30
 Leu Leu Gly Arg Ala Val His Lys Glu Phe Gln Gln Asn Asn Trp His
 35 40 45
 Ala Val Gly Cys Gly Phe Arg Arg Ala Arg Pro Lys Phe Glu Gln Val
 50 55 60
 Asn Leu Leu Asp Ser Asn Ala Val His His Ile Ile His Asp Phe Gln

1386

65		70		75		80
Pro His Val Ile Val His Cys Ala Ala Glu Arg Arg Pro Asp Val Val						
	85		90		95	
Glu Asn Gln Pro Asp Ala Ala Ser Gln Leu Asn Val Asp Ala Ser Gly						
	100		105		110	
Asn Leu Ala Lys Glu Ala Ala Ala Val Gly Ala Phe Leu Ile Tyr Ile						
	115		120		125	
Ser Ser Asp Tyr Val Phe Asp Gly Thr Asn Pro Pro Tyr Arg Glu Glu						
	130		135		140	
Asp Ile Pro Ala Pro Leu Asn Leu Tyr Gly Lys Thr Lys Leu Asp Gly						
	145		150		155	160
Glu Lys Ala Val Leu Glu Asn Asn Leu Gly Ala Ala Val Leu Arg Ile						
	165		170		175	
Pro Ile Leu Tyr Gly Glu Val Glu Lys Leu Glu Glu Ser Ala Val Thr						
	180		185		190	
Val Met Phe Asp Lys Val Gln Phe Ser Asn Lys Ser Ala Asn Met Asp						
	195		200		205	
His Trp Gln Gln Arg Phe Pro Thr His Val Lys Asp Val Ala Thr Val						
	210		215		220	
Cys Arg Gln Leu Ala Glu Lys Arg Met Leu Asp Pro Ser Ile Lys Gly						
	225		230		235	240
Thr Phe His Trp Ser Gly Asn Glu Gln Met Thr Lys Tyr Glu Met Ala						
	245		250		255	
Cys Ala Ile Ala Asp Ala Phe Asn Leu Pro Ser Ser His Leu Arg Pro						
	260		265		270	
Ile Thr Asp Ser Pro Val Leu Gly Ala Gln Arg Pro Arg Asn Ala Gln						
	275		280		285	
Leu Asp Cys Ser Lys Leu Glu Thr Leu Gly Ile Gly Gln Arg Thr Pro						
	290		295		300	
Phe Arg Ile Gly Ile Lys Glu Ser Leu Trp Pro Phe Leu Ile Asp Lys						
	305		310		315	320
Arg Trp Arg Gln Thr Val Phe His						
	325					

1387

<210> 1339
 <211> 64
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1339
 Leu Xaa His Pro Phe Ala Val Thr Ser Tyr Gly Lys Asn Leu Tyr Phe
 1 5 10 15
 Thr Asp Trp Lys Met Asn Ser Val Val Ala Leu Asp Leu Ala Ile Ser
 20 25 30
 Lys Glu Thr Asp Ala Phe Gln Pro His Lys Gln Thr Arg Leu Tyr Gly
 35 40 45
 Ile Thr Thr Ala Leu Ser Gln Cys Pro Gln Ala Ile Thr Thr Ala Gln
 50 55 60

<210> 1340
 <211> 155
 <212> PRT
 <213> Homo sapiens

<400> 1340
 Arg Lys Met Ala Val Glu Ser Arg Val Thr Gln Glu Glu Ile Lys Lys
 1 5 10 15
 Glu Pro Glu Lys Pro Ile Asp Arg Glu Lys Thr Cys Pro Leu Leu Leu
 20 25 30
 Arg Val Phe Thr Thr Asn Asn Gly Arg His His Arg Met Asp Glu Phe
 35 40 45
 Ser Arg Gly Asn Val Pro Ser Ser Glu Leu Gln Ile Tyr Thr Trp Met
 50 55 60
 Asp Ala Thr Leu Lys Glu Leu Thr Ser Leu Val Lys Glu Val Tyr Pro
 65 70 75 80
 Glu Ala Arg Lys Lys Gly Thr His Phe Asn Phe Ala Ile Val Phe Thr

1388

	85		90		95
Asp Val Lys Arg Pro Gly Tyr Arg Val Lys Glu Ile Gly Ser Thr Met					
100		105		110	
Ser Gly Arg Lys Gly Thr Asp Asp Ser Met Thr Leu Gln Ser Gln Lys					
115		120		125	
Phe Gln Ile Gly Asp Tyr Leu Asp Ile Ala Ile Thr Pro Pro Asn Arg					
130		135		140	
Ala Pro Pro Pro Ser Gly Arg Met Arg Pro Tyr					
145		150		155	

<210> 1341
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1341
 Ala Gln Leu Pro Ser Ser Ser Phe Leu Arg His Arg Gly Val Phe Leu
 1 5 10 15
 Thr Pro Leu Leu Ala Met Ser Ser His Lys Thr Phe Arg Ile Lys Arg
 20 25 30
 Phe Leu Ala Lys Lys Gln Lys Gln Asn Arg Pro Ile Pro Gln Trp Ile
 35 40 45
 Arg Met Lys Thr Gly Asn Lys Ile Arg Tyr Asn Ser Lys Arg Arg His
 50 55 60
 Trp Arg Arg Thr Lys Leu Gly Leu
 65 70

<210> 1342
 <211> 270
 <212> PRT
 <213> Homo sapiens

<400> 1342
 Leu Lys Val Ala Gln Thr Asp Gly Val Asn Val Asp Met His Leu Lys
 1 5 10 15
 Gln Ile Glu Ile Lys Lys Phe Lys Tyr Gly Ile Glu Glu His Gly Lys
 20 25 30

1389

Val Lys Met Arg Gly Gly Leu Leu Arg Thr Tyr Ile Ile Ser Ile Leu
 35 40 45
 Phe Lys Ser Ile Phe Glu Val Ala Phe Leu Leu Ile Gln Trp Tyr Ile
 50 55 60
 Tyr Gly Phe Ser Leu Ser Ala Val Tyr Thr Cys Lys Arg Asp Pro Cys
 65 70 75 80
 Pro His Gln Val Asp Cys Phe Leu Ser Arg Pro Thr Glu Lys Thr Ile
 85 90 95
 Phe Ile Ile Phe Met Leu Val Val Ser Leu Val Ser Leu Ala Leu Asn
 100 105 110
 Ile Ile Glu Leu Phe Tyr Val Phe Phe Lys Gly Val Lys Asp Arg Val
 115 120 125
 Lys Gly Lys Ser Asp Pro Tyr His Ala Thr Ser Gly Ala Leu Ser Pro
 130 135 140
 Ala Lys Asp Cys Gly Ser Gln Lys Tyr Ala Tyr Phe Asn Gly Cys Ser
 145 150 155 160
 Ser Pro Thr Ala Pro Leu Ser Pro Met Ser Pro Pro Gly Tyr Lys Leu
 165 170 175
 Val Thr Gly Asp Arg Asn Asn Ser Ser Cys Arg Asn Tyr Asn Lys Gln
 180 185 190
 Ala Ser Glu Gln Asn Trp Ala Asn Tyr Ser Ala Glu Gln Asn Arg Met
 195 200 205
 Gly Gln Ala Gly Ser Thr Ile Ser Asn Ser His Ala Gln Pro Phe Asp
 210 215 220
 Phe Pro Asp Asp Asn Gln Asn Ser Lys Lys Leu Ala Ala Gly His Glu
 225 230 235 240
 Leu Gln Pro Leu Ala Ile Val Asp Gln Arg Pro Ser Ser Arg Ala Ser
 245 250 255
 Ser Arg Ala Ser Ser Arg Pro Arg Pro Asp Asp Leu Glu Ile
 260 265 270

<210> 1343

<211> 94

<212> PRT

<213> Homo sapiens

1390

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1343

Gln Glu Leu Arg Ser Pro Ser Arg Ser Pro Ser Pro Pro Pro Lys Ser
 1 5 10 15
 Pro Pro Trp Thr Thr Gly Gly Ser Leu Cys Glu Gln Leu Ala Phe Arg
 20 25 30
 Lys Pro Leu Ser Val Phe Lys Gln Lys Val Glu Gly Ala Thr Lys Gln
 35 40 45
 Ala Ala Val Arg Ala Ser Xaa Cys Arg Pro Leu Pro Cys Ser Ser Ser
 50 55 60
 Ser Phe Ala Ser Ala Ser Ser Val Met Phe Cys Leu Glu Phe Tyr Leu
 65 70 75 80
 Asp Phe Phe Ser Gly Tyr Phe Ser Val Phe Gln Pro Leu Leu
 85 90

<210> 1344

<211> 125

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1344

Tyr Ser Thr Arg Ala Leu Trp Lys Pro Asn His Val His Val Cys Val
 1 5 10 15

1391

Cys Val Cys Ala Ser Phe Glu Pro Pro Ser Thr Ala Ala Ser Ser His
 20 25 30
 Asp Thr Lys Leu Leu Ile Ser Thr Phe Leu Trp Val Ala Gln Gly Leu
 35 40 45
 Ile Ala Ser His Ser Ile Thr Arg Ile Glu Ala Arg His Gly Gly Ala
 50 55 60
 Cys Leu Val Val Pro Ala Lys Leu Gly Arg Leu Glu Gly Arg Glu Gly
 65 70 75 80
 Ser Leu Trp Ser Pro Gly Arg Leu Glu Gly Trp Gln Trp Ser His Gly
 85 90 95
 Ser Gly Gly His Trp His Phe Gln Pro Gly Gly Gly Arg Val Glu Thr
 100 105 110
 Phe Val Leu Gln Lys Xaa Lys Lys Lys Xaa Xaa Gly Gly
 115 120 125

<210> 1345

<211> 131

<212> PRT

<213> Homo sapiens

<400> 1345

Pro Arg Val Arg Arg Leu Arg Glu Asp Asp Arg Arg Gly Phe Leu Ser
 1 5 10 15
 Phe Arg Ala Asp Ser Ala His Ala Ser Met Val Asn Val Pro Lys Thr
 20 25 30
 Arg Arg Thr Phe Cys Lys Lys Cys Gly Lys His Gln Pro His Lys Val
 35 40 45
 Thr Gln Tyr Lys Lys Gly Lys Asp Ser Leu Tyr Ala Gln Gly Lys Arg
 50 55 60
 Arg Tyr Asp Arg Lys Gln Ser Gly Tyr Gly Gly Gln Thr Lys Pro Ile
 65 70 75 80
 Phe Arg Lys Lys Ala Lys Thr Thr Lys Lys Ile Val Leu Arg Leu Glu
 85 90 95
 Cys Val Glu Pro Asn Cys Arg Ser Lys Arg Met Leu Ala Ile Lys Arg
 100 105 110
 Cys Lys His Phe Glu Leu Gly Gly Asp Lys Lys Arg Lys Gly Gln Val

1392

115

120

125

Ile Gln Phe

130

<210> 1346

<211> 75

<212> PRT

<213> Homo sapiens

<400> 1346

Asn Lys Arg Asn Cys Lys Phe Pro Leu Leu Lys Ile Thr Lys Ile Thr
 1 5 10 15

Glu Thr Lys Glu Glu Ile Arg Ile Trp Gly Ile Val Leu Asn Asn Leu
 20 25 30

Val Val Lys Lys Asn Asn Cys Ala Cys Leu Asp Leu Asn Lys Pro Pro
 35 40 45

Ser Lys Cys Glu Gly Ser Ser Asn Phe Ser Lys His Met Lys Val Leu
 50 55 60

Ile His Phe Asp Lys Gly Pro Leu Lys Lys Ser
 65 70 75

<210> 1347

<211> 413

<212> PRT

<213> Homo sapiens

<400> 1347

Gly Val Ala Arg Ala Gln Pro Val Pro Ala Val Leu Ser Trp Leu Leu
 1 5 10 15

Ala Leu Leu Arg Cys Ala Ala Thr Met Leu Ser Leu Arg Val Pro Leu
 20 25 30

Ala Pro Ile Thr Asp Pro Gln Gln Leu Gln Leu Ser Pro Leu Lys Gly
 35 40 45

Leu Ser Leu Val Asp Lys Glu Asn Thr Pro Pro Ala Leu Ser Gly Thr
 50 55 60

Arg Val Leu Ala Ser Lys Thr Ala Arg Arg Ile Phe Gln Glu Pro Thr
 65 70 75 80

1393

Glu Pro Lys Thr Lys Ala Ala Ala Pro Gly Val Glu Asp Glu Pro Leu
 85 90 95

Leu Arg Glu Asn Pro Arg Arg Phe Val Ile Phe Pro Ile Glu Tyr His
 100 105 110

Asp Ile Trp Gln Met Tyr Lys Lys Ala Glu Ala Ser Phe Trp Thr Ala
 115 120 125

Glu Glu Val Asp Leu Ser Lys Asp Ile Gln His Trp Glu Ser Leu Lys
 130 135 140

Pro Glu Glu Arg Tyr Phe Ile Ser His Val Leu Ala Phe Phe Ala Ala
 145 150 155 160

Ser Asp Gly Ile Val Asn Glu Asn Leu Val Glu Arg Phe Ser Gln Glu
 165 170 175

Val Gln Ile Thr Glu Ala Arg Cys Phe Tyr Gly Phe Gln Ile Ala Met
 180 185 190

Glu Asn Ile His Ser Glu Met Tyr Ser Leu Leu Ile Asp Thr Tyr Ile
 195 200 205

Lys Asp Pro Lys Glu Arg Glu Phe Leu Phe Asn Ala Ile Glu Thr Met
 210 215 220

Pro Cys Val Lys Lys Lys Ala Asp Trp Ala Leu Arg Trp Ile Gly Asp
 225 230 235 240

Lys Glu Ala Thr Tyr Gly Glu Arg Val Val Ala Phe Ala Ala Val Glu
 245 250 255

Gly Ile Phe Phe Ser Gly Ser Phe Ala Ser Ile Phe Trp Leu Lys Lys
 260 265 270

Arg Gly Leu Met Pro Gly Leu Thr Phe Ser Asn Glu Leu Ile Ser Arg
 275 280 285

Asp Glu Gly Leu His Cys Asp Phe Ala Cys Leu Met Phe Lys His Leu
 290 295 300

Val His Lys Pro Ser Glu Glu Arg Val Arg Glu Ile Ile Ile Asn Ala
 305 310 315 320

Val Arg Ile Glu Gln Glu Phe Leu Thr Glu Ala Leu Pro Val Lys Leu
 325 330 335

Ile Gly Met Asn Cys Thr Leu Met Lys Gln Tyr Ile Glu Phe Val Ala
 340 345 350

1394

Asp Arg Leu Met Leu Glu Leu Gly Phe Ser Lys Val Phe Arg Val Glu
 355 360 365

Asn Pro Phe Asp Phe Met Glu Asn Ile Ser Leu Glu Gly Lys Thr Asn
 370 375 380

Phe Phe Glu Lys Arg Val Gly Glu Tyr Gln Arg Met Gly Val Met Ser
 385 390 395 400

Ser Pro Thr Glu Asn Ser Phe Thr Leu Asp Ala Asp Phe
 405 410

<210> 1348

<211> 243

<212> PRT

<213> Homo sapiens

<400> 1348

Thr Gly Asn Lys Met Gln Asp Pro Asn Ala Asp Thr Glu Trp Asn Asp
 1 5 10 15

Ile Leu Arg Lys Lys Gly Ile Leu Pro Pro Lys Glu Ser Leu Lys Glu
 20 25 30

Leu Glu Glu Glu Ala Glu Glu Glu Gln Arg Ile Leu Gln Gln Ser Val
 35 40 45

Val Lys Thr Tyr Glu Asp Met Thr Leu Glu Glu Leu Glu Asp His Glu
 50 55 60

Asp Glu Phe Asn Glu Glu Asp Glu Arg Ala Ile Glu Met Tyr Arg Arg
 65 70 75 80

Arg Arg Leu Ala Glu Trp Lys Ala Thr Lys Leu Lys Asn Lys Phe Gly
 85 90 95

Glu Val Leu Glu Ile Ser Gly Lys Asp Tyr Val Gln Glu Val Thr Lys
 100 105 110

Ala Gly Glu Gly Leu Trp Val Ile Leu His Leu Tyr Lys Gln Gly Ile
 115 120 125

Pro Leu Cys Ala Leu Ile Asn Gln His Leu Ser Gly Leu Ala Arg Lys
 130 135 140

Phe Pro Asp Val Lys Phe Ile Lys Ala Ile Ser Thr Thr Cys Ile Pro
 145 150 155 160

Asn Tyr Pro Asp Arg Asn Leu Pro Thr Ile Phe Val Tyr Leu Glu Gly

1395

	165		170		175
Asp Ile Lys Ala Gln Phe Ile Gly Pro Leu Val Phe Gly Gly Met Asn					
	180		185		190
Leu Thr Arg Asp Glu Leu Glu Trp Lys Leu Ser Glu Ser Gly Ala Ile					
	195		200		205
Met Thr Asp Leu Glu Glu Asn Pro Lys Lys Pro Ile Glu Asp Val Leu					
	210		215		220
Leu Ser Ser Val Arg Arg Ser Val Leu Met Lys Arg Asp Ser Asp Ser					
	225		230		240
Glu Gly Asp					

<210> 1349

<211> 326

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1349

Arg Met Ala Thr Pro Leu Pro Pro Pro Ser Pro Arg His Leu Arg Leu
1 5 10 15

Leu Arg Leu Leu Leu Ser Gly Leu Val Leu Gly Ala Ala Leu Arg Gly
20 25 30

Ala Ala Ala Gly His Pro Asp Val Ala Ala Cys Pro Gly Ser Leu Asp
35 40 45

Cys Ala Leu Lys Arg Arg Ala Arg Cys Pro Pro Gly Ala His Ala Cys
50 55 60

Gly Pro Cys Leu Gln Pro Phe Gln Glu Asp Gln Gln Gly Leu Cys Val
65 70 75 80

Pro Arg Met Arg Arg Pro Pro Gly Gly Gly Arg Pro Gln Pro Arg Leu

1396

<210> 1350
<211> 62

1397

<212> PRT

<213> Homo sapiens

<400> 1350

Val Lys Ser Asp Thr Pro Pro Cys Val Ser Lys Asn Leu Val Pro Pro
 1 5 10 15

Leu His Thr Ser Leu Thr Leu Asn Ile Phe His Trp Ile Leu Asp Arg
 20 25 30

Ala Lys Gly Arg Thr Gly Ala Ser Gly Gly Pro Trp Leu Phe Lys Ser
 35 40 45

Trp Ile Ile Cys Asp Ser Asn His Lys Phe Leu Ala Asn Phe
 50 55 60

<210> 1351

<211> 312

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (299)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1351

Glu Pro Arg Pro Gly Cys Gly Asn Lys Met Ala Gly Lys Lys Asn Val
 1 5 10 15

Leu Ser Ser Leu Ala Val Tyr Ala Glu Asp Ser Glu Pro Glu Ser Asp
 20 25 30

Gly Glu Ala Gly Ile Glu Ala Val Gly Ser Ala Ala Glu Glu Lys Gly
 35 40 45

Gly Leu Val Ser Asp Ala Tyr Gly Glu Asp Asp Phe Ser Arg Leu Gly
 50 55 60

Gly Asp Glu Asp Gly Tyr Glu Glu Glu Glu Asp Glu Asn Ser Arg Gln
 65 70 75 80

Ser Glu Asp Asp Asp Ser Glu Thr Glu Lys Pro Glu Ala Asp Asp Pro
 85 90 95

Lys Asp Asn Thr Glu Ala Glu Lys Arg Asp Pro Gln Glu Leu Val Ala
 100 105 110

Ser Phe Ser Glu Arg Val Arg Asn Met Ser Pro Asp Glu Ile Lys Ile

1398

115	120	125
Pro Pro Glu Pro Pro Gly Arg Cys Ser Asn His Leu Gln Asp Lys Ile		
130	135	140
Gln Lys Leu Tyr Glu Arg Lys Ile Lys Glu Gly Met Asp Met Asn Tyr		
145	150	155
Ile Ile Gln Arg Lys Lys Glu Phe Arg Asn Pro Ser Ile Tyr Glu Lys		
	165	170
		175
Leu Ile Gln Phe Cys Ala Ile Asp Glu Leu Gly Thr Asn Tyr Pro Lys		
	180	185
		190
Asp Met Phe Asp Pro His Gly Trp Ser Glu Asp Ser Tyr Tyr Glu Ala		
	195	200
		205
Leu Ala Lys Ala Gln Lys Ile Glu Met Asp Lys Leu Glu Lys Ala Lys		
	210	215
		220
Lys Glu Arg Thr Lys Ile Glu Phe Val Thr Gly Thr Lys Lys Gly Thr		
225	230	235
		240
Thr Thr Asn Ala Thr Ser Thr Thr Thr Thr Thr Ala Ser Thr Ala Val		
	245	250
		255
Ala Asp Ala Gln Lys Arg Lys Ser Lys Trp Asp Ser Ala Ile Pro Val		
	260	265
		270
Thr Thr Ile Ser Pro Ala His His Pro His His His Ser His Pro Ala		
	275	280
		285
Ser Cys Cys His Gly His His Gln Arg Gln Xaa Ser Lys Asp His Arg		
	290	295
		300
His Leu Cys Cys Gly Ala Pro Leu		
305	310	

<210> 1352

<211> 259

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1352

1399

Leu Leu Asp Ser Leu Lys Xaa Asp Tyr Ala Gly Lys Pro Gln Pro Pro
 1 5 10 15
 Ile Lys Ser Glu Arg Arg Asn Pro Pro Ser Tyr Ala Met Ala Gly Lys
 20 25 30
 Lys Val Leu Ile Val Tyr Ala His Gln Glu Pro Lys Ser Phe Asn Gly
 35 40 45
 Ser Leu Lys Asn Val Ala Val Asp Glu Leu Ser Arg Gln Gly Cys Thr
 50 55 60
 Val Thr Val Ser Asp Leu Tyr Ala Met Asn Phe Glu Pro Arg Ala Thr
 65 70 75 80
 Asp Lys Asp Ile Thr Gly Thr Leu Ser Asn Pro Glu Val Phe Asn Tyr
 85 90 95
 Gly Val Glu Thr His Glu Ala Tyr Lys Gln Arg Ser Leu Ala Ser Asp
 100 105 110
 Ile Thr Asp Glu Gln Lys Lys Val Arg Glu Ala Asp Leu Val Ile Phe
 115 120 125
 Gln Phe Pro Leu Tyr Trp Phe Ser Val Pro Ala Ile Leu Lys Gly Trp
 130 135 140
 Met Asp Arg Val Leu Cys Gln Gly Phe Ala Phe Asp Ile Pro Gly Phe
 145 150 155 160
 Tyr Asp Ser Gly Leu Leu Gln Gly Lys Leu Ala Leu Leu Ser Val Thr
 165 170 175
 Thr Gly Gly Thr Ala Glu Met Tyr Thr Lys Thr Gly Val Asn Gly Asp
 180 185 190
 Ser Arg Tyr Phe Leu Trp Pro Leu Gln His Gly Thr Leu His Phe Cys
 195 200 205
 Gly Phe Lys Val Leu Ala Pro Gln Ile Ser Phe Ala Pro Glu Ile Ala
 210 215 220
 Ser Glu Glu Glu Arg Lys Gly Met Val Ala Ala Trp Ser Gln Arg Leu
 225 230 235 240
 Gln Thr Ile Trp Lys Glu Glu Pro Ile Pro Cys Thr Ala His Trp His
 245 250 255
 Phe Gly Gln

1400

<210> 1353
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1353
 Asp Leu Ala Ser Glu Glu His Phe Phe Ser Val Lys Phe Leu Tyr Leu
 1 5 10 15
 Lys Ile Gln Lys Tyr Phe Arg Ile Leu Leu Ile Leu Ser Pro Val Phe
 20 25 30
 Thr Ser Phe Trp Lys Thr Cys Ile Thr Met Ser Leu Glu Lys Gly Gln
 35 40 45
 Arg Lys Ala Phe His Val Lys Ile Arg Ser Leu Ala Ile Ser Asn Pro
 50 55 60
 Val Leu Phe Ser Leu His Phe Phe
 65 70

<210> 1354
 <211> 301
 <212> PRT
 <213> Homo sapiens

<400> 1354
 Lys Arg Arg Arg Arg Leu Glu Gln Arg Gln Gln Pro Asp Glu Gln Arg
 1 5 10 15
 Arg Arg Ser Gly Ala Met Val Lys Met Ala Ala Ala Gly Gly Gly Gly
 20 25 30
 Gly Gly Gly Arg Tyr Tyr Gly Gly Gly Ser Glu Gly Gly Arg Ala Pro
 35 40 45
 Lys Arg Leu Lys Thr Asp Asn Ala Gly Asp Gln His Gly Gly Gly Gly
 50 55 60
 Gly Gly Gly Gly Gly Ala Gly Ala Ala Gly Gly Gly Gly Gly Glu
 65 70 75 80
 Asn Tyr Asp Asp Pro His Lys Thr Pro Ala Ser Pro Val Val His Ile
 85 90 95
 Arg Gly Leu Ile Asp Gly Val Val Glu Ala Asp Leu Val Glu Ala Leu
 100 105 110

1401

Gln Glu Phe Gly Pro Ile Ser Tyr Val Val Val Met Pro Lys Lys Arg
 115 120 125
 Gln Ala Leu Val Glu Phe Glu Asp Val Leu Gly Ala Cys Asn Ala Val
 130 135 140
 Asn Tyr Ala Ala Asp Asn Gln Ile Tyr Ile Ala Gly His Pro Ala Phe
 145 150 155 160
 Val Asn Tyr Ser Thr Ser Gln Lys Ile Ser Arg Pro Gly Asp Ser Asp
 165 170 175
 Asp Ser Arg Ser Val Asn Ser Val Leu Leu Phe Thr Ile Leu Asn Pro
 180 185 190
 Ile Tyr Ser Ile Thr Thr Asp Val Leu Tyr Thr Ile Cys Asn Pro Cys
 195 200 205
 Gly Pro Val Gln Arg Ile Val Ile Phe Arg Lys Asn Gly Val Gln Ala
 210 215 220
 Met Val Glu Phe Asp Ser Val Gln Ser Ala Gln Arg Ala Lys Ala Ser
 225 230 235 240
 Leu Asn Gly Ala Asp Ile Tyr Ser Gly Cys Cys Thr Leu Lys Ile Glu
 245 250 255
 Tyr Ala Lys Pro Thr Arg Leu Asn Val Phe Lys Asn Asp Gln Asp Thr
 260 265 270
 Trp Asp Tyr Thr Asn Pro Asn Leu Ser Gly Gln Gly Asn Leu Asp Asp
 275 280 285
 His Phe Val Leu Asn Ile Pro Ala Leu Leu Ser Leu Asp
 290 295 300

<210> 1355

<211> 466

<212> PRT

<213> Homo sapiens

<400> 1355

Asn Thr Val Met Gly Arg Lys Lys Lys Lys Gln Leu Lys Pro Trp Cys
 1 5 10 15
 Trp Tyr Cys Asn Arg Asp Phe Asp Asp Glu Lys Ile Leu Ile Gln His
 20 25 30

1402

Gln Lys Ala Lys His Phe Lys Cys His Ile Cys His Lys Lys Leu Tyr
 35 40 45
 Thr Gly Pro Gly Leu Ala Ile His Cys Met Gln Val His Lys Glu Thr
 50 55 60
 Ile Asp Ala Val Pro Asn Ala Ile Pro Gly Arg Thr Asp Ile Glu Leu
 65 70 75 80
 Glu Ile Tyr Gly Met Glu Gly Ile Pro Glu Lys Asp Met Asp Glu Arg
 85 90 95
 Arg Arg Leu Leu Glu Gln Lys Thr Gln Glu Ser Gln Lys Lys Lys Gln
 100 105 110
 Gln Asp Asp Ser Asp Glu Tyr Asp Asp Asp Asp Ser Ala Ala Ser Thr
 115 120 125
 Ser Phe Gln Pro Gln Pro Val Gln Pro Gln Gln Gly Tyr Ile Pro Pro
 130 135 140
 Met Ala Gln Pro Gly Leu Pro Pro Val Pro Gly Ala Pro Gly Met Pro
 145 150 155 160
 Pro Gly Ile Pro Pro Leu Met Pro Gly Val Pro Pro Leu Met Pro Gly
 165 170 175
 Met Pro Pro Val Met Pro Gly Met Pro Pro Gly Leu His His Gln Arg
 180 185 190
 Lys Tyr Thr Gln Ser Phe Cys Gly Glu Asn Ile Met Met Pro Met Gly
 195 200 205
 Gly Met Met Pro Pro Gly Pro Gly Ile Pro Pro Leu Met Pro Gly Met
 210 215 220
 Pro Pro Gly Met Pro Pro Pro Val Pro Arg Pro Gly Ile Pro Pro Met
 225 230 235 240
 Thr Gln Ala Gln Ala Val Ser Ala Pro Gly Ile Leu Asn Arg Pro Pro
 245 250 255
 Ala Pro Thr Ala Thr Val Pro Ala Pro Gln Pro Pro Val Thr Lys Pro
 260 265 270
 Leu Phe Pro Ser Ala Gly Gln Ala Gln Ala Ala Val Gln Gly Pro Val
 275 280 285
 Gly Thr Asp Phe Lys Pro Leu Asn Ser Thr Pro Ala Thr Thr Thr Glu
 290 295 300

1403

Pro Pro Lys Pro Thr Phe Pro Ala Tyr Thr Gln Ser Thr Ala Ser Thr
 305 310 315 320
 Thr Ser Thr Thr Asn Ser Thr Ala Ala Lys Pro Ala Ala Ser Ile Thr
 325 330 335
 Ser Lys Pro Ala Thr Leu Thr Thr Thr Ser Ala Thr Ser Lys Leu Ile
 340 345 350
 His Pro Asp Glu Asp Ile Ser Leu Glu Glu Arg Arg Ala Gln Leu Pro
 355 360 365
 Lys Tyr Gln Arg Asn Leu Pro Arg Pro Gly Gln Ala Pro Ile Gly Asn
 370 375 380
 Pro Pro Val Gly Pro Ile Gly Gly Met Met Pro Pro Gln Pro Gly Ile
 385 390 395 400
 Pro Gln Gln Gln Gly Met Arg Pro Pro Met Pro Pro His Gly Gln Tyr
 405 410 415
 Gly Gly His His Gln Gly Met Pro Gly Tyr Leu Pro Gly Ala Met Pro
 420 425 430
 Pro Tyr Gly Gln Gly Pro Pro Met Val Pro Pro Tyr Gln Gly Gly Pro
 435 440 445
 Pro Arg Pro Pro Met Gly Met Arg Pro Pro Val Met Ser Gln Gly Gly
 450 455 460
 Arg Tyr
 465

<210> 1356

<211> 85

<212> PRT

<213> Homo sapiens

<400> 1356

Leu Ser Asp Asp Gln Ser Leu Leu Ile Ile Leu Leu Leu Lys Gly Leu
 1 5 10 15
 Leu Thr Asn Leu Ser Phe Thr Pro Cys Gly Pro Cys Tyr Trp Tyr Thr
 20 25 30
 Gln Tyr Val Leu Thr Glu Asp Met Asp Phe Ile Cys Ser Ser Ala Gly
 35 40 45
 Ile Gly Lys Leu Asp Leu Phe Ser Met Ile Gln Asn Ser Pro Ile Arg

1404

50 55 60
 Arg Leu Glu Lys Glu Glu Leu Tyr Ser Ser Leu Cys Tyr Phe Leu Leu
 65 70 75 80
 Pro Phe Leu Phe Leu
 85

<210> 1357

<211> 580

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (526)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1357

Asp Ser Xaa Thr Phe Asp Asp Leu Ala Val Asp Phe Thr Pro Glu Glu
 1 5 10 15

Trp Thr Leu Leu Asp Pro Thr Gln Arg Asn Leu Tyr Arg Asp Val Met
 20 25 30

Leu Glu Asn Tyr Lys Asn Leu Ala Thr Val Gly Tyr Gln Leu Phe Lys
 35 40 45

Pro Ser Leu Ile Ser Trp Leu Glu Gln Glu Glu Ser Arg Thr Val Gln
 50 55 60

Arg Gly Asp Phe Gln Ala Ser Glu Trp Lys Val Gln Leu Lys Thr Lys
 65 70 75 80

Glu Leu Ala Leu Gln Gln Asp Val Leu Gly Glu Pro Thr Ser Ser Gly
 85 90 95

Ile Gln Met Ile Gly Ser His Asn Gly Gly Glu Val Ser Asp Val Lys
 100 105 110

Gln Cys Gly Asp Val Ser Ser Glu His Ser Cys Leu Lys Thr His Val
 115 120 125

Arg Thr Gln Asn Ser Glu Asn Thr Phe Glu Cys Tyr Leu Tyr Gly Val

1405

130	135	140
Asp Phe Leu Thr Leu His Lys Lys Thr Ser Thr Gly Glu Gln Arg Ser		
145	150	155 160
Val Phe Ser Gln Cys Gly Lys Ala Phe Ser Leu Asn Pro Asp Val Val		
	165	170 175
Cys Gln Arg Thr Cys Thr Gly Glu Lys Ala Phe Asp Cys Ser Asp Ser		
	180	185 190
Gly Lys Ser Phe Ile Asn His Ser His Leu Gln Gly His Leu Arg Thr		
	195	200 205
His Asn Gly Glu Ser Leu His Glu Trp Lys Glu Cys Gly Arg Gly Phe		
	210	215 220
Ile His Ser Thr Asp Leu Ala Val Arg Ile Gln Thr His Arg Ser Glu		
225	230	235 240
Lys Pro Tyr Lys Cys Lys Glu Cys Gly Lys Gly Phe Arg Tyr Ser Ala		
	245	250 255
Tyr Leu Asn Ile His Met Gly Thr His Thr Gly Asp Asn Pro Tyr Glu		
	260	265 270
Cys Lys Glu Cys Gly Lys Ala Phe Thr Arg Ser Cys Gln Leu Thr Gln		
	275	280 285
His Arg Lys Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Lys Asp Cys		
	290	295 300
Gly Arg Ala Phe Thr Val Ser Ser Cys Leu Ser Gln His Met Lys Ile		
305	310	315 320
His Val Gly Glu Lys Pro Tyr Glu Cys Lys Glu Cys Gly Ile Ala Phe		
	325	330 335
Thr Arg Ser Ser Gln Leu Thr Glu His Leu Lys Thr His Thr Ala Lys		
	340	345 350
Asp Pro Phe Glu Cys Lys Ile Cys Gly Lys Ser Phe Arg Asn Ser Ser		
	355	360 365
Cys Leu Ser Asp His Phe Arg Ile His Thr Gly Ile Lys Pro Tyr Lys		
	370	375 380
Cys Lys Asp Cys Gly Lys Ala Phe Thr Gln Asn Ser Asp Leu Thr Lys		
385	390	395 400
His Ala Arg Thr His Ser Gly Glu Arg Pro Tyr Glu Cys Lys Glu Cys		

1406

405	410	415
Gly Lys Ala Phe Ala Arg Ser Ser Arg Leu Ser Glu His Thr Arg Thr		
420	425	430
His Thr Gly Glu Lys Pro Phe Glu Cys Val Lys Cys Gly Lys Ala Phe		
435	440	445
Ala Ile Ser Ser Asn Leu Ser Gly His Leu Arg Ile His Thr Gly Glu		
450	455	460
Lys Pro Phe Glu Cys Leu Glu Cys Gly Lys Ala Phe Thr His Ser Ser		
465	470	480
Ser Leu Asn Asn His Met Arg Thr His Ser Ala Lys Lys Pro Phe Thr		
485	490	495
Cys Met Glu Cys Gly Lys Ala Phe Lys Phe Pro Thr Cys Val Asn Leu		
500	505	510
His Met Arg Ile His Thr Gly Glu Lys Pro Tyr Lys Cys Xaa Gln Cys		
515	520	525
Gly Lys Ser Phe Ser Tyr Ser Asn Ser Phe Gln Leu His Glu Arg Thr		
530	535	540
His Thr Gly Glu Lys Pro Tyr Glu Cys Lys Glu Cys Gly Lys Ala Phe		
545	550	555
Ser Ser Ser Ser Ser Phe Arg Asn His Glu Arg Arg His Ala Asp Glu		
565	570	575
Arg Leu Ser Ala		
580		

<210> 1358

<211> 612

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (445)

<223> Xaa equals any of the naturally occurring L-amino acids

1407

<400> 1358

Glu Val Pro Glu Ala His Arg Ala Ser Pro Arg Glu Gly Thr Ser Gly
 1 5 10 15

Gly Glu Arg Leu Gln Asp Leu Val Lys Ser Lys Met Ser Glu Thr Ser
 20 25 30

Arg Thr Ala Phe Gly Gly Arg Arg Ala Val Pro Pro Asn Asn Ser Asn
 35 40 45

Ala Ala Glu Asp Asp Leu Pro Thr Val Glu Leu Gln Gly Val Val Pro
 50 55 60

Arg Gly Val Asn Leu Gln Asp Asp Ala Val Tyr Leu Asp Asn Glu Lys
 65 70 75 80

Glu Arg Glu Glu Tyr Val Leu Asn Asp Ile Gly Val Ile Phe Tyr Gly
 85 90 95

Glu Val Asn Asp Ile Lys Thr Arg Ser Trp Ser Tyr Gly Gln Phe Glu
 100 105 110

Asp Gly Ile Leu Asp Thr Cys Leu Tyr Val Met Asp Arg Ala Gln Met
 115 120 125

Asp Leu Ser Gly Arg Xaa Asn Pro Ile Lys Val Ser Arg Val Gly Ser
 130 135 140

Ala Met Val Asn Ala Lys Asp Asp Glu Gly Val Leu Val Gly Ser Trp
 145 150 155 160

Asp Asn Ile Tyr Ala Tyr Gly Val Pro Pro Ser Ala Trp Thr Gly Ser
 165 170 175

Val Asp Ile Leu Leu Glu Tyr Arg Ser Ser Glu Asn Pro Val Arg Tyr
 180 185 190

Gly Gln Cys Trp Val Phe Ala Gly Val Phe Asn Thr Phe Leu Arg Cys
 195 200 205

Leu Gly Ile Pro Ala Arg Ile Val Thr Asn Tyr Phe Ser Ala His Asp
 210 215 220

Asn Asp Ala Asn Leu Gln Met Asp Ile Phe Leu Glu Glu Asp Gly Asn
 225 230 235 240

Val Asn Ser Lys Leu Thr Lys Asp Ser Val Trp Asn Tyr His Cys Trp
 245 250 255

Asn Glu Ala Trp Met Thr Arg Pro Asp Leu Pro Val Gly Phe Gly Gly

1408

260	265	270
Trp Gln Ala Val Asp Ser Thr Pro Gln Glu Asn Ser Asp Gly Met Tyr		
275	280	285
Arg Cys Gly Pro Ala Ser Val Gln Ala Ile Lys His Gly His Val Cys		
290	295	300
Phe Gln Phe Asp Ala Pro Phe Val Phe Ala Glu Val Asn Ser Asp Leu		
305	310	315 320
Ile Tyr Ile Thr Ala Lys Lys Asp Gly Thr His Val Val Glu Asn Val		
325	330	335
Asp Ala Thr His Ile Gly Lys Leu Ile Val Thr Lys Gln Ile Gly Gly		
340	345	350
Asp Gly Met Met Asp Ile Thr Asp Thr Tyr Lys Phe Gln Glu Gly Gln		
355	360	365
Glu Glu Glu Arg Leu Ala Leu Glu Thr Ala Leu Met Tyr Gly Ala Lys		
370	375	380
Lys Pro Leu Asn Thr Glu Gly Val Met Lys Ser Arg Ser Asn Val Asp		
385	390	395 400
Met Asp Phe Glu Val Glu Asn Ala Val Leu Gly Lys Asp Phe Lys Leu		
405	410	415
Ser Ile Thr Phe Arg Asn Asn Ser His Asn Arg Tyr Thr Ile Thr Ala		
420	425	430
Tyr Leu Ser Ala Asn Ile Thr Phe Tyr Thr Gly Val Xaa Lys Ala Glu		
435	440	445
Phe Lys Lys Glu Thr Phe Asp Val Thr Leu Glu Pro Leu Ser Phe Lys		
450	455	460
Lys Glu Ala Val Leu Ile Gln Ala Gly Glu Tyr Met Gly Gln Leu Leu		
465	470	475 480
Glu Gln Ala Ser Leu His Phe Phe Val Thr Ala Arg Ile Asn Glu Thr		
485	490	495
Arg Asp Val Leu Ala Lys Gln Lys Ser Thr Val Leu Thr Ile Pro Glu		
500	505	510
Ile Ile Ile Lys Val Arg Gly Thr Gln Val Val Gly Ser Asp Met Thr		
515	520	525
Val Thr Val Glu Phe Thr Asn Pro Leu Lys Glu Thr Leu Arg Asn Val		

1409

530		535		540
Trp Val His Leu Asp Gly Pro Gly Val Thr Arg Pro Met Lys Lys Met				
545		550		555 560
Phe Arg Glu Ile Arg Pro Asn Ser Thr Val Gln Trp Glu Glu Val Cys				
	565		570	575
Arg Pro Trp Val Ser Gly His Arg Lys Leu Ile Ala Ser Met Ser Ser				
	580		585	590
Asp Ser Leu Arg His Val Tyr Gly Glu Leu Asp Val Gln Ile Gln Arg				
	595		600	605
Arg Pro Ser Met				
610				

<210> 1359
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1359
 Leu Ser Cys Ile Val Leu Leu Arg Gln Ser Ser Val Lys Leu Tyr Gln
 1 5 10 15
 Leu Arg Leu Val Ser Ser Asp Phe His Trp Gly Ile Arg Val Leu Ala
 20 25 30
 Gly Leu Asn Leu Leu Leu Val Gly Ser Val Phe Leu Met Asn Lys Ser
 35 40 45
 His Ser Thr Glu Leu Gln Val Ile
 50 55

<210> 1360
 <211> 415
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (368)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE

1410

<222> (374)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (379)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (381)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (384)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (385)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (386)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (389)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (397)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (404)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (405)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (409)

1411

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1360

Gly Gly Gly Gly Glu Lys Met Ala Asp Asp Pro Ser Ala Ala Asp Arg
 1 5 10 15

Asn Val Glu Ile Trp Lys Ile Lys Lys Leu Ile Lys Ser Leu Glu Ala
 20 25 30

Ala Arg Gly Asn Gly Thr Ser Met Ile Ser Leu Ile Ile Pro Pro Lys
 35 40 45

Asp Gln Ile Ser Arg Val Ala Lys Met Leu Ala Asp Glu Phe Gly Thr
 50 55 60

Ala Ser Asn Ile Lys Ser Arg Val Asn Arg Leu Ser Val Leu Gly Ala
 65 70 75 80

Ile Thr Ser Val Gln Gln Arg Leu Lys Leu Tyr Asn Lys Val Pro Pro
 85 90 95

Asn Gly Leu Val Val Tyr Cys Gly Thr Ile Val Thr Glu Glu Gly Lys
 100 105 110

Glu Lys Lys Val Asn Ile Asp Phe Glu Pro Phe Lys Pro Ile Asn Thr
 115 120 125

Ser Leu Tyr Leu Cys Asp Asn Lys Phe His Thr Glu Ala Leu Thr Ala
 130 135 140

Leu Leu Ser Asp Asp Ser Lys Phe Gly Phe Ile Val Ile Asp Gly Ser
 145 150 155 160

Gly Ala Leu Phe Gly Thr Leu Gln Gly Asn Thr Arg Glu Val Leu His
 165 170 175

Lys Phe Thr Val Asp Leu Pro Lys Lys His Gly Arg Gly Gly Gln Ser
 180 185 190

Ala Leu Arg Phe Ala Arg Leu Arg Met Glu Lys Arg His Asn Tyr Val
 195 200 205

Arg Lys Val Ala Glu Thr Ala Val Gln Leu Phe Ile Ser Gly Asp Lys
 210 215 220

Val Asn Val Ala Gly Leu Val Leu Ala Gly Ser Ala Asp Phe Lys Thr
 225 230 235 240

Glu Leu Ser Gln Ser Asp Met Phe Asp Gln Arg Leu Gln Ser Lys Val
 245 250 255

1412

Leu Lys Leu Val Asp Ile Ser Tyr Gly Gly Glu Asn Gly Phe Asn Gln
 260 265 270

Ala Ile Glu Leu Ser Thr Glu Val Leu Ser Asn Val Lys Phe Ile Gln
 275 280 285

Glu Lys Lys Leu Ile Gly Arg Tyr Phe Asp Glu Ile Ser Gln Asp Thr
 290 295 300

Gly Lys Tyr Cys Phe Gly Val Glu Asp Thr Leu Lys Ala Leu Glu Met
 305 310 315 320

Gly Ala Val Glu Ile Leu Ile Val Tyr Glu Asn Leu Asp Ile Met Arg
 325 330 335

Tyr Val Leu His Cys Gln Gly Thr Glu Glu Glu Lys Ile Leu Tyr Leu
 340 345 350

Thr Pro Glu Gln Glu Lys Asp Lys Ser His Phe Thr Asp Lys Glu Xaa
 355 360 365

Arg Thr Gly Thr Met Xaa Leu Ser Arg Ala Xaa Pro Xaa Leu Glu Xaa
 370 375 380

Xaa Xaa Asn Asn Xaa Lys Lys Leu Gly Leu Pro Trp Xaa Ile Gly Pro
 385 390 395 400

Ile Asn Ser Xaa Xaa Arg Gly Gln Xaa Trp Lys Arg Ile Gly Gly
 405 410 415

<210> 1361

<211> 119

<212> PRT

<213> Homo sapiens

<400> 1361

His Ala Ser Ala Asp Ala Trp Ala Asp Ala Trp Val Ala Gly Ser Asp
 1 5 10 15

Phe Ile Lys Thr Ser Thr Gly Lys Glu Thr Val Asn Ala Thr Phe Pro
 20 25 30

Val Ala Ile Val Met Leu Arg Ala Ile Arg Asp Phe Phe Trp Lys Thr
 35 40 45

Gly Asn Lys Ile Gly Phe Lys Pro Ala Gly Gly Ile Arg Ser Ala Lys
 50 55 60

Asp Ser Leu Ala Trp Leu Ser Leu Val Lys Glu Glu Leu Gly Asp Glu

1413

65 70 75 80
 Trp Leu Lys Pro Glu Leu Phe Arg Ile Gly Ala Ser Thr Leu Leu Ser
 85 90 95
 Asp Ile Glu Arg Gln Ile Tyr His His Val Thr Gly Arg Tyr Ala Ala
 100 105 110
 Tyr His Asp Leu Pro Met Ser
 115

<210> 1362

<211> 282

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1362

Gly Arg Val Gly Gly Arg Val Gly Gly Arg Val Gly Phe Thr Ala Lys
 1 5 10 15

Val Trp Asp Ala Val Ser Gly Asp Glu Leu Met Thr Leu Ala His Lys
 20 25 30

His Xaa Xaa Lys Thr Val Asp Phe Thr Gln Asp Ser Asn Tyr Leu Leu
 35 40 45

Thr Gly Gly Gln Asp Lys Leu Leu Arg Ile Tyr Asp Leu Asn Lys Pro
 50 55 60

Glu Ala Glu Pro Lys Glu Ile Ser Gly His Thr Ser Gly Ile Lys Lys
 65 70 75 80

Ala Leu Trp Cys Ser Glu Asp Lys Gln Ile Leu Ser Ala Asp Asp Lys
 85 90 95

Thr Val Arg Leu Trp Asp His Ala Thr Met Thr Glu Val Lys Ser Leu
 100 105 110

Asn Phe Asn Met Ser Val Ser Ser Met Glu Tyr Ile Pro Glu Gly Glu

1414

115	120	125
Ile Leu Val Ile Thr Tyr Gly Arg Ser Ile Ala Phe His Ser Ala Val		
130	135	140
Ser Leu Asp Pro Ile Lys Ser Phe Glu Ala Pro Ala Thr Ile Asn Ser		
145	150	155 160
Ala Ser Leu His Pro Glu Lys Glu Phe Leu Val Ala Gly Gly Glu Asp		
	165	170 175
Phe Lys Leu Tyr Lys Tyr Asp Tyr Asn Ser Gly Glu Glu Leu Glu Ser		
	180	185 190
Tyr Lys Gly His Phe Gly Pro Ile His Cys Val Arg Phe Ser Pro Asp		
	195	200 205
Gly Glu Leu Tyr Ala Ser Gly Ser Glu Asp Gly Thr Leu Arg Leu Trp		
	210	215 220
Gln Thr Val Val Gly Lys Thr Tyr Gly Leu Trp Lys Cys Val Leu Pro		
	225	230 235 240
Glu Glu Asp Ser Gly Glu Leu Ala Lys Pro Lys Ile Gly Phe Pro Glu		
	245	250 255
Thr Thr Glu Glu Glu Leu Glu Glu Ile Ala Ser Glu Asn Ser Asp Cys		
	260	265 270
Ile Phe Pro Ser Ala Pro Asp Val Lys Ala		
	275	280

<210> 1363

<211> 334

<212> PRT

<213> Homo sapiens

<400> 1363

Thr Pro Arg Thr Pro Glu Pro His Lys Pro Gly Leu Ala Met Lys Pro
1 5 10 15
Gly Phe Ser Pro Arg Gly Gly Gly Phe Gly Gly Arg Gly Gly Phe Gly
20 25 30
Asp Arg Gly Gly Arg Gly Gly Arg Gly Gly Phe Gly Gly Gly Arg Gly
35 40 45
Arg Gly Gly Gly Phe Arg Gly Arg Gly Arg Gly Gly Gly Gly Gly
50 55 60

1415

Gly Gly Gly Gly Gly Gly Gly Arg Gly Gly Gly Gly Phe His Ser Gly
 65 70 75 80

Gly Asn Arg Gly Arg Gly Arg Gly Gly Lys Arg Gly Asn Gln Ser Gly
 85 90 95

Lys Asn Val Met Val Glu Pro His Arg His Glu Gly Val Phe Ile Cys
 100 105 110

Arg Gly Lys Glu Asp Ala Leu Val Thr Lys Asn Leu Val Pro Gly Glu
 115 120 125

Ser Val Tyr Gly Glu Lys Arg Val Ser Ile Ser Glu Gly Asp Asp Lys
 130 135 140

Ile Glu Tyr Arg Ala Trp Asn Pro Phe Arg Ser Lys Leu Ala Ala Ala
 145 150 155 160

Ile Leu Gly Gly Val Asp Gln Ile His Ile Lys Pro Gly Ala Lys Val
 165 170 175

Leu Tyr Leu Gly Ala Ala Ser Gly Thr Thr Val Ser His Val Ser Asp
 180 185 190

Ile Val Gly Pro Asp Gly Leu Val Tyr Ala Val Glu Phe Ser His Arg
 195 200 205

Ser Gly Arg Asp Leu Ile Asn Leu Ala Lys Lys Arg Thr Asn Ile Ile
 210 215 220

Pro Val Ile Glu Asp Ala Arg His Pro His Lys Tyr Arg Met Leu Ile
 225 230 235 240

Ala Met Val Asp Val Ile Phe Ala Asp Val Ala Gln Pro Asp Gln Thr
 245 250 255

Arg Ile Val Ala Leu Asn Ala His Thr Phe Leu Arg Asn Gly Gly His
 260 265 270

Phe Val Ile Ser Ile Lys Ala Asn Cys Ile Asp Ser Thr Ala Ser Ala
 275 280 285

Glu Ala Val Phe Ala Ser Glu Val Lys Lys Met Gln Gln Glu Asn Met
 290 295 300

Lys Pro Gln Glu Gln Leu Thr Leu Glu Pro Tyr Glu Arg Asp His Ala
 305 310 315 320

Val Val Val Gly Val Tyr Arg Pro Pro Pro Lys Val Lys Asn
 325 330

1416

<210> 1364

<211> 602

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (356)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1364

Pro Gly Ala Glu Lys Ser Gly Arg Ala Ala Glu Arg Pro Gly Arg Gly
 1 5 10 15

Pro Gly Arg Gly Ala His Ser Arg Pro Thr Ala Pro Arg Glu Arg Ala
 20 25 30

Pro Arg Ser Pro Ala Pro Ser Pro Pro Gly Met Gly Arg Ala Ala Ala
 35 40 45

Ala Glu Ala Pro Ala Trp Pro Gly Arg Thr Arg Pro Glu Ala Glu Gly
 50 55 60

Arg Ala Arg Ala Gln Leu Pro Gly His Gln Ile Gly Ala Arg Arg Ala
 65 70 75 80

Gly Gly Pro Arg Ala Gly Leu Glu Met Ser Trp Pro Arg Arg Leu Leu
 85 90 95

Leu Arg Tyr Leu Phe Pro Ala Leu Leu Leu His Gly Leu Gly Glu Gly
 100 105 110

Ser Ala Leu Leu His Pro Asp Ser Arg Ser His Pro Arg Ser Leu Glu
 115 120 125

Lys Ser Ala Trp Arg Ala Phe Lys Glu Ser Gln Cys His His Met Leu
 130 135 140

Lys His Leu His Asn Gly Ala Arg Ile Thr Val Gln Met Pro Pro Thr
 145 150 155 160

Ile Glu Gly His Trp Val Ser Thr Gly Cys Glu Val Arg Ser Gly Pro
 165 170 175

Glu Phe Ile Thr Arg Ser Tyr Arg Phe Tyr His Asn Asn Thr Phe Lys
 180 185 190

Ala Tyr Gln Phe Tyr Tyr Gly Ser Asn Arg Cys Thr Asn Pro Thr Tyr

1417

195	200	205
Thr Leu Ile Ile Arg Gly Lys Ile Arg Leu Arg Gln Ala Ser Trp Ile 210 215 220		
Ile Arg Gly Gly Thr Glu Ala Asp Tyr Gln Leu His Asn Val Gln Val 225 230 235 240		
Ile Cys His Thr Glu Ala Val Ala Glu Lys Leu Gly Gln Gln Val Asn 245 250 255		
Arg Thr Cys Pro Gly Phe Leu Ala Asp Gly Gly Pro Trp Val Gln Asp 260 265 270		
Val Ala Tyr Asp Leu Trp Arg Glu Glu Asn Gly Cys Glu Cys Thr Lys 275 280 285		
Ala Val Asn Phe Ala Met His Glu Leu Gln Leu Ile Arg Val Glu Lys 290 295 300		
Gln Tyr Leu His His Asn Leu Asp His Leu Val Glu Glu Leu Phe Leu 305 310 315 320		
Gly Asp Ile His Thr Asp Ala Thr Gln Arg Met Phe Tyr Arg Pro Ser 325 330 335		
Ser Tyr Gln Pro Pro Leu Gln Asn Ala Lys Asn His Asp His Ala Cys 340 345 350		
Ile Ala Cys Xaa Ile Ile Tyr Arg Ser Asp Glu His His Pro Pro Ile 355 360 365		
Leu Pro Pro Lys Ala Asp Leu Thr Ile Gly Leu His Gly Glu Trp Val 370 375 380		
Ser Gln Arg Cys Glu Val Arg Pro Glu Val Leu Phe Leu Thr Arg His 385 390 395 400		
Phe Ile Phe His Asp Asn Asn Asn Thr Trp Glu Gly His Tyr Tyr His 405 410 415		
Tyr Ser Asp Pro Val Cys Lys His Pro Thr Phe Ser Ile Tyr Ala Arg 420 425 430		
Gly Arg Tyr Ser Arg Gly Val Leu Ser Ser Arg Val Met Gly Gly Thr 435 440 445		
Glu Phe Val Phe Lys Val Asn His Met Lys Val Thr Pro Met Asp Ala 450 455 460		
Ala Thr Ala Ser Leu Leu Asn Val Phe Asn Gly Asn Glu Cys Gly Ala		

1418

465 470 475 480
 Glu Gly Ser Trp Gln Val Gly Ile Gln Gln Asp Val Thr His Thr Asn
 485 490 495
 Gly Cys Val Ala Leu Gly Ile Lys Leu Pro His Thr Glu Tyr Glu Ile
 500 505 510
 Phe Lys Met Glu Gln Asp Ala Arg Gly Arg Tyr Leu Leu Phe Asn Gly
 515 520 525
 Gln Arg Pro Ser Asp Gly Ser Ser Pro Asp Arg Pro Glu Lys Arg Ala
 530 535 540
 Thr Ser Tyr Gln Met Pro Leu Val Gln Cys Ala Ser Ser Ser Pro Arg
 545 550 555 560
 Ala Glu Asp Leu Ala Glu Asp Ser Gly Ser Ser Leu Tyr Gly Arg Ala
 565 570 575
 Pro Gly Arg His Thr Trp Ser Leu Leu Leu Ala Ala Leu Ala Cys Leu
 580 585 590
 Val Pro Leu Leu His Trp Asn Ile Arg Arg
 595 600

<210> 1365

<211> 158

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

1419

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1365

Ser Asn Ser Gly Tyr Pro Phe Trp Thr Pro Ser Met Leu Trp Lys Leu
1 5 10 15

Cys Thr Phe Thr Leu Leu Asn Lys Ala Xaa Ser Phe Phe Ser Leu Ser
20 25 30

Val His Val Ser Phe Thr His Xaa Gly Gln Leu Pro His His Phe Phe
35 40 45

Gly Val Ala Trp Gln Glu Pro Gln Val Leu His Leu Gly Glu Pro Asp
50 55 60

Arg Arg Leu Gln Lys Arg Ile Lys Ala Ile Lys Leu Gln Xaa Ile Leu
65 70 75 80

Gln Met Glu Pro Gln Met Ser Ser Ala His Gly Phe Tyr Arg Gly Pro
85 90 95

Leu Xaa Gln Pro Ala Gly Pro Ser Ile Thr Leu Glu Asn Ser Pro Leu
100 105 110

Glu Asp Thr Lys Leu Gln Gly Pro Phe Phe Thr Pro Asn Gln Gln Glu
115 120 125

Val Ala Arg Thr Asp Cys His Xaa Val Pro Asn Ser Xaa Xaa Gly Cys
130 135 140

Pro Val Leu Glu Ala Gly Phe Arg Gly Gly Ala Gln Leu Gly
145 150 155

<210> 1366

1420

<211> 466

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (205)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (220)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (347)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1366

Ser	Thr	Arg	Xaa	Arg	Glu	Gly	Asn	Ser	His	Ser	Xaa	Gly	His	Lys	Thr
1				5					10					15	

Ile	Gln	Gly	Ser	Leu	Gly	Arg	Leu	Ser	Ser	Ala	Val	Pro	Gly	Ser	Gly
			20					25						30	

Ala	Glu	Leu	Ser	Pro	Val	Pro	Asn	Thr	Asp	Gly	Thr	Met	Asn	Ser	Gly
		35					40					45			

His	Ser	Phe	Ser	Gln	Thr	Pro	Ser	Ala	Ser	Phe	His	Gly	Ala	Gly	Gly
	50						55				60				

Gly	Trp	Gly	Arg	Pro	Arg	Ser	Phe	Pro	Arg	Ala	Pro	Thr	Val	His	Gly
65					70					75					80

Gly	Ala	Gly	Gly	Ala	Arg	Ile	Ser	Leu	Ser	Phe	Thr	Thr	Arg	Ser	Cys
				85					90					95	

Pro	Pro	Pro	Gly	Gly	Ser	Trp	Gly	Ser	Gly	Arg	Ser	Ser	Pro	Leu	Leu
			100					105						110	

1421

Gly Gly Asn Gly Lys Ala Thr Met Gln Asn Leu Asn Asp Arg Leu Ala
 115 120 125
 Ser Tyr Leu Glu Lys Val Arg Ala Leu Glu Glu Ala Asn Met Lys Leu
 130 135 140
 Glu Ser Arg Ile Leu Lys Trp His Gln Gln Arg Asp Pro Gly Ser Lys
 145 150 155 160
 Lys Asp Tyr Ser Gln Tyr Glu Glu Asn Ile Thr His Leu Gln Glu Gln
 165 170 175
 Ile Val Asp Gly Lys Met Thr Asn Ala Gln Ile Ile Leu Leu Ile Asp
 180 185 190
 Asn Ala Arg Met Ala Val Asp Asp Phe Asn Leu Lys Xaa Glu Asn Glu
 195 200 205
 His Ser Phe Lys Lys Asp Leu Glu Ile Glu Val Xaa Gly Leu Arg Arg
 210 215 220
 Thr Leu Asp Asn Leu Thr Ile Val Thr Thr Asp Leu Glu Gln Glu Val
 225 230 235 240
 Glu Gly Met Arg Lys Glu Leu Ile Leu Met Lys Lys His His Glu Gln
 245 250 255
 Glu Met Glu Lys His His Val Pro Ser Asp Phe Asn Val Asn Val Lys
 260 265 270
 Val Asp Thr Gly Pro Arg Glu Asp Leu Ile Lys Val Leu Glu Asp Met
 275 280 285
 Arg Gln Glu Tyr Glu Leu Ile Ile Lys Lys Lys His Arg Asp Leu Asp
 290 295 300
 Thr Trp Tyr Lys Glu Gln Ser Ala Ala Met Ser Gln Glu Ala Ala Ser
 305 310 315 320
 Pro Ala Thr Val Gln Ser Arg Gln Gly Asp Ile His Glu Leu Lys Arg
 325 330 335
 Thr Phe Gln Ala Leu Glu Ile Asp Leu Gln Xaa Gln Tyr Ser Thr Lys
 340 345 350
 Ser Ala Leu Glu Asn Met Leu Ser Glu Thr Gln Ser Arg Tyr Ser Cys
 355 360 365
 Lys Leu Gln Asp Met Gln Glu Ile Ile Ser His Tyr Glu Glu Glu Leu
 370 375 380

1422

Thr Gln Leu Arg His Glu Leu Glu Arg Gln Asn Asn Glu Tyr Gln Val
385 390 395 400

Leu Leu Gly Ile Lys Thr His Leu Glu Lys Glu Ile Thr Thr Tyr Arg
405 410 415

Arg Leu Leu Glu Gly Glu Ser Glu Gly Thr Arg Glu Glu Ser Lys Ser
420 425 430

Ser Met Lys Val Ser Ala Thr Pro Lys Ile Lys Ala Ile Thr Gln Glu
435 440 445

Thr Ile Asn Gly Arg Leu Val Leu Cys Gln Val Asn Glu Ile Gln Lys
450 455 460

His Ala
465

<210> 1367

<211> 153

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

1423

<221> SITE

<222> (152)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1367

Leu Arg Phe Ala Ser Pro Gly Pro Gly Ala Gly Arg Ala Arg Asp Ser
 1 5 10 15

Gln Arg Lys Trp Arg Arg Leu Arg Ala Arg Pro Leu Leu Gly Pro Gly
 20 25 30

Gln Gly Trp Ser Trp Ala Gly Ile Pro Ser Ser Ala Ala Ala Gln Arg
 35 40 45

Ala Gly Pro Pro Ala Gly Ala Leu Glu Ala Leu Ser Pro Gly Gly Ala
 50 55 60

Arg Ala His Ala Glu Arg Arg Gly Glu Met Arg Ala Thr Pro Leu Ala
 65 70 75 80

Ala Pro Ala Gly Ser Leu Ser Arg Lys Lys Arg Leu Glu Leu Asp Asp
 85 90 95

Asn Leu Asp Thr Glu Arg Pro Val Gln Lys Arg Ala Arg Ser Gly Pro
 100 105 110

Gln Pro Arg Leu Pro Pro Cys Leu Leu Pro Leu Ser Pro Pro Thr Ala
 115 120 125

Pro Asp Arg Ala Thr Ala Val Xaa Thr Xaa Ser Arg Xaa Xaa Xaa Tyr
 130 135 140

Val Leu Leu Glu Ala Arg Arg Xaa Ala
 145 150

<210> 1368

<211> 399

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

1424

<400> 1368

Ser Asp Asn Xaa Thr Asn Gly Cys Gly Leu Glu Ser Xaa Gly Asn Thr
 1 5 10 15

Val Thr Pro Val Asn Val Asn Glu Val Lys Pro Ile Asn Lys Gly Glu
 20 25 30

Glu Gln Ile Gly Phe Glu Leu Val Glu Lys Leu Phe Gln Gly Gln Leu
 35 40 45

Val Leu Arg Thr Arg Cys Leu Glu Cys Glu Ser Leu Thr Glu Arg Arg
 50 55 60

Glu Asp Phe Gln Asp Ile Ser Val Pro Val Gln Glu Asp Glu Leu Ser
 65 70 75 80

Lys Val Glu Glu Ser Ser Glu Ile Ser Pro Glu Pro Lys Thr Glu Met
 85 90 95

Lys Thr Leu Arg Trp Ala Ile Ser Gln Phe Ala Ser Val Glu Arg Ile
 100 105 110

Val Gly Glu Asp Lys Tyr Phe Cys Glu Asn Cys His His Tyr Thr Glu
 115 120 125

Ala Glu Arg Ser Leu Leu Phe Asp Lys Met Pro Glu Val Ile Thr Ile
 130 135 140

His Leu Lys Cys Phe Ala Ala Ser Gly Leu Glu Phe Asp Cys Tyr Gly
 145 150 155 160

Gly Gly Leu Ser Lys Ile Asn Thr Pro Leu Leu Thr Pro Leu Lys Leu
 165 170 175

Ser Leu Glu Glu Trp Ser Thr Lys Pro Thr Asn Asp Ser Tyr Gly Leu
 180 185 190

Phe Ala Val Val Met His Ser Gly Ile Thr Ile Ser Ser Gly His Tyr
 195 200 205

Thr Ala Ser Val Lys Val Thr Asp Leu Asn Ser Leu Glu Leu Asp Lys
 210 215 220

Gly Asn Phe Val Val Asp Gln Met Cys Glu Ile Gly Lys Pro Glu Pro
 225 230 235 240

Leu Asn Glu Glu Glu Ala Arg Gly Val Val Glu Asn Tyr Asn Asp Glu
 245 250 255

Glu Val Ser Ile Arg Val Gly Gly Asn Thr Gln Pro Ser Lys Val Leu

1425

260	265	270
Asn Lys Lys Asn Val Glu Ala Ile Gly Leu Leu Gly Gly Gln Lys Ser		
275	280	285
Lys Ala Asp Tyr Glu Leu Tyr Asn Lys Ala Ser Asn Pro Asp Lys Val		
290	295	300
Ala Ser Thr Ala Phe Ala Glu Asn Arg Asn Ser Glu Thr Ser Asp Thr		
305	310	315
Thr Gly Thr His Glu Ser Asp Arg Asn Lys Glu Ser Ser Asp Gln Thr		
325	330	335
Gly Ile Asn Ile Ser Gly Phe Glu Asn Lys Ile Ser Tyr Val Val Gln		
340	345	350
Ser Leu Lys Glu Tyr Glu Gly Lys Trp Leu Leu Phe Asp Asp Ser Glu		
355	360	365
Val Lys Val Thr Glu Glu Lys Asp Phe Leu Asn Ser Leu Ser Pro Ser		
370	375	380
Thr Ser Pro Thr Ser Thr Pro Tyr Leu Leu Phe Tyr Lys Lys Leu		
385	390	395

<210> 1369

<211> 260

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1369

Val Phe Xaa Ser Phe Phe Ala Glu Lys Glu Gln Gln Glu Ala Ile Glu		
1	5	10
His Ile Asp Glu Val Gln Asn Glu Ile Asp Arg Leu Asn Glu Gln Ala		
20	25	30
Ser Glu Glu Ile Leu Lys Val Glu Gln Lys Tyr Asn Lys Leu Arg Gln		
35	40	45
Pro Phe Phe Gln Lys Arg Ser Glu Leu Ile Ala Lys Ile Pro Asn Phe		
50	55	60

1426

Trp Val Thr Thr Phe Val Asn His Pro Gln Val Ser Ala Leu Leu Gly
 65 70 75 80
 Glu Glu Asp Glu Glu Ala Leu His Tyr Leu Thr Arg Val Glu Val Thr
 85 90 95
 Glu Phe Glu Asp Ile Lys Ser Gly Tyr Arg Ile Asp Phe Tyr Phe Asp
 100 105 110
 Glu Asn Pro Tyr Phe Glu Asn Lys Val Leu Ser Lys Glu Phe His Leu
 115 120 125
 Asn Glu Ser Gly Asp Pro Ser Ser Lys Ser Thr Glu Ile Lys Trp Lys
 130 135 140
 Ser Gly Lys Asp Leu Thr Lys Arg Ser Ser Gln Thr Gln Asn Lys Ala
 145 150 155 160
 Ser Arg Lys Arg Gln His Glu Glu Pro Glu Ser Phe Phe Thr Trp Phe
 165 170 175
 Thr Asp His Ser Asp Ala Gly Ala Asp Glu Leu Gly Glu Val Ile Lys
 180 185 190
 Asp Asp Ile Trp Pro Asn Pro Leu Gln Tyr Tyr Leu Val Pro Asp Met
 195 200 205
 Asp Asp Glu Glu Gly Glu Gly Glu Glu Asp Asp Asp Asp Asp Glu Glu
 210 215 220
 Glu Glu Gly Leu Glu Asp Ile Asp Glu Glu Gly Asp Glu Asp Glu Gly
 225 230 235 240
 Glu Glu Asp Glu Asp Asp Asp Glu Gly Glu Glu Gly Glu Glu Asp Glu
 245 250 255
 Gly Glu Asp Asp
 260

<210> 1370

<211> 155

<212> PRT

<213> Homo sapiens

<400> 1370

Lys Gly Glu Ala Ala Ala Phe Ser Ala Thr Phe Pro Ile Ala Arg Gln
 1 5 10 15

Glu Phe Leu Ser Val Thr Thr Ile Ala Val Met Ser Gly Arg Gly Lys

1427

20 25 30
 Gln Gly Gly Lys Ala Arg Ala Lys Ala Lys Ser Arg Ser Ser Arg Ala
 35 40 45
 Gly Leu Gln Phe Pro Val Gly Glu Cys Ile Ala Leu Arg Lys Gly Asn
 50 55 60
 Tyr Ala Glu Arg Val Gly Ala Gly Ala Pro Val Tyr Met Ala Ala Val
 65 70 75 80
 Leu Glu Tyr Leu Thr Ala Glu Ile Leu Glu Leu Ala Gly Asn Ala Ala
 85 90 95
 Arg Asp Asn Lys Lys Thr Arg Ile Ile Pro Arg His Leu Gln Leu Ala
 100 105 110
 Ile Arg Asn Asp Glu Glu Leu Asn Lys Leu Leu Gly Lys Val Thr Ile
 115 120 125
 Ala Gln Gly Gly Val Leu Pro Asn Ile Gln Ala Val Leu Leu Pro Lys
 130 135 140
 Lys Thr Glu Ser His His Lys Ala Lys Gly Lys
 145 150 155

<210> 1371

<211> 140

<212> PRT

<213> Homo sapiens

<400> 1371

Phe Pro Gly Arg Thr His Ala Leu Cys Arg Gly Ala Ala Ser Arg Gly
 1 5 10 15
 Leu Leu Cys Lys Trp Ala Pro Trp Pro Ser Ala Pro Val Pro Ala Thr
 20 25 30
 Arg Asp Arg Ala Pro Arg Pro Ala Arg Gly Arg Arg Pro Asp Pro Thr
 35 40 45
 Ser Gln Gln Ala Lys Ala Trp Arg Pro Ser Pro Pro Ala Ala Arg Ser
 50 55 60
 Trp Pro Pro Thr Thr Thr Thr Gly Ala Ala Trp Val Pro Leu Pro Ala
 65 70 75 80
 Thr Ala Pro Ala Ala Val Pro Ser Ala Pro Gly Lys Pro Phe Pro Thr
 85 90 95

1428

Pro Gln Val Ser Pro Arg Leu Thr Arg Val Ile Gly Gly Pro Ala Ser
100 105 110

Phe Ser Gly Ser Pro Pro Ser Arg Ser Trp Pro Arg Cys Trp Ser Pro
115 120 125

Gln Ser Thr Arg Asn Leu Pro Arg Pro Pro Ala Ala
130 135 140

<210> 1372

<211> 150

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1372

Pro Trp Thr Leu Gly Gly Pro Glu Leu Asp Ala Met Gly Gly Cys Ala
1 5 10 15

1429

Gly Ser Arg Arg Arg Phe Ser Asp Ser Glu Gly Glu Glu Thr Val Pro
 20 25 30

Glu Pro Arg Leu Pro Leu Leu Asp His Gln Gly Ala His Trp Lys Asn
 35 40 45

Ala Val Gly Phe Trp Leu Leu Gly Leu Cys Asn Asn Phe Ser Tyr Val
 50 55 60

Val Met Leu Ser Ala Ala His Asp Ile Leu Ser His Lys Arg Thr Ser
 65 70 75 80

Gly Asn Gln Ser His Val Asp Pro Gly Pro Thr Pro Ile Pro His Asn
 85 90 95

Ser Ser Ser Arg Phe Asp Cys Asn Ser Val Ser Thr Ala Ala Val Leu
 100 105 110

Leu Ala Asp Ile Leu Pro Thr Leu Val Ile Lys Leu Leu Xaa Xaa Xaa
 115 120 125

Gly Leu His Leu Leu Pro Xaa Thr Val Glu Asp Ala Val Xaa Leu Cys
 130 135 140

Ala Leu Xaa Gly Thr Ala
 145 150

<210> 1373

<211> 128

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1373

Arg His Ser Arg Val Asp Pro Arg Val Arg Ala Arg Phe Arg Arg Arg
 1 5 10 15

Arg Ala Phe Ala Xaa Leu Gly Trp Ser Ser Gly Arg Val Ser Arg Pro
 20 25 30

1430

Glu His Val Asp Ala His Pro Pro Leu Ser Leu Met Glu Val Val Thr
 35 40 45
 Phe Gly Asp Val Ala Val His Phe Ser Arg Glu Glu Trp Gln Cys Leu
 50 55 60
 Asp Pro Gly Gln Arg Ala Leu Tyr Arg Glu Val Met Leu Glu Asn His
 65 70 75 80
 Ser Ser Val Ala Gly Leu Ala Gly Phe Leu Val Phe Lys Pro Glu Leu
 85 90 95
 Ile Ser Arg Leu Glu Gln Gly Glu Glu Pro Trp Val Leu Asp Leu Gln
 100 105 110
 Gly Ala Glu Gly Thr Glu Ala Pro Xaa Thr Ser Lys Thr Gly Glu Ala
 115 120 125

<210> 1374

<211> 398

<212> PRT

<213> Homo sapiens

<400> 1374

Ser Ser Trp Leu Arg Ser Arg Ser Gly Met Gln Thr Asp Leu Gln Asn
 1 5 10 15
 Leu Gly Asn Asp Ser Gly Asp His Ser Asp His Met His Tyr Tyr Gln
 20 25 30
 Gly Lys Lys Tyr Phe Arg Asp Arg Arg Gly Gly Gly Arg Asn Ser Asp
 35 40 45
 Trp Ser Ser Asp Thr Asn Arg Gln Gly Gln Gln Ser Ser Ser Asp Cys
 50 55 60
 Tyr Ile Tyr Asp Ser Ala Thr Gly Tyr Tyr Tyr Asp Pro Leu Ala Gly
 65 70 75 80
 Thr Tyr Tyr Asp Pro Asn Thr Gln Gln Glu Val Tyr Val Pro Gln Asp
 85 90 95
 Pro Gly Leu Pro Glu Glu Glu Glu Ile Lys Glu Lys Lys Pro Thr Ser
 100 105 110
 Gln Gly Lys Ser Ser Ser Lys Lys Glu Met Ser Lys Arg Asp Gly Lys

1431

115	120	125
Glu Lys Lys Asp Arg Gly Val Thr Arg Phe Gln Glu Asn Ala Ser Glu		
130	135	140
Gly Lys Ala Pro Ala Glu Asp Val Phe Lys Lys Pro Leu Pro Pro Thr		
145	150	155
		160
Val Lys Lys Glu Glu Ser Pro Pro Pro Pro Lys Val Val Asn Pro Leu		
	165	170
		175
Ile Gly Leu Leu Gly Glu Tyr Gly Gly Asp Ser Asp Tyr Glu Glu Glu		
	180	185
		190
Glu Glu Glu Glu Gln Thr Pro Pro Pro Gln Pro Arg Thr Ala Gln Pro		
	195	200
		205
Gln Lys Arg Glu Glu Gln Thr Lys Lys Glu Asn Glu Glu Asp Lys Leu		
	210	215
		220
Thr Asp Trp Asn Lys Leu Ala Cys Leu Leu Cys Arg Arg Gln Phe Pro		
225	230	235
		240
Asn Lys Glu Val Leu Ile Lys His Gln Gln Leu Ser Asp Leu His Lys		
	245	250
		255
Gln Asn Leu Glu Ile His Arg Lys Ile Lys Gln Ser Glu Gln Glu Leu		
	260	265
		270
Ala Tyr Leu Glu Arg Arg Glu Arg Glu Gly Lys Phe Lys Gly Arg Gly		
	275	280
		285
Asn Asp Arg Arg Glu Lys Leu Gln Ser Phe Asp Ser Pro Glu Arg Lys		
	290	295
		300
Arg Ile Lys Tyr Ser Arg Glu Thr Asp Ser Asp Arg Lys Leu Val Asp		
305	310	315
		320
Lys Glu Asp Ile Asp Thr Ser Ser Lys Gly Gly Cys Val Gln Gln Ala		
	325	330
		335
Thr Gly Trp Arg Lys Gly Thr Gly Leu Gly Tyr Gly His Pro Gly Leu		
	340	345
		350
Ala Ser Ser Glu Glu Ala Glu Gly Arg Met Arg Gly Pro Ser Val Gly		
	355	360
		365
Ala Ser Gly Arg Thr Ser Lys Arg Gln Ser Asn Glu Thr Tyr Arg Asp		
	370	375
		380
Ala Val Arg Arg Val Met Phe Ala Arg Tyr Lys Glu Leu Asp		

1432

385

390

395

<210> 1375

<211> 167

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (157)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (161)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (163)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1375

His	Arg	Gly	Lys	Arg	Tyr	Thr	Asp	Ser	Thr	Val	Arg	Asn	Ser	Arg	Val
1				5					10					15	

Asp	Pro	Arg	Val	Arg	Ser	Ala	Lys	Pro	Glu	Ser	Cys	Pro	Phe	Ser	Leu
			20					25					30		

Pro	Gly	Gln	His	Glu	Leu	His	His	Ser	Leu	His	Leu	Leu	His	Gln	Leu
		35					40					45			

Pro	Val	Pro	Gly	Leu	Cys	Pro	Gly	Ala	Gln	Leu	Arg	Arg	Pro	Ala	Gly
	50					55					60				

Gln	Gln	Arg	Gly	Gln	Arg	Leu	Cys	Arg	Arg	Trp	Gly	Leu	Trp	Phe	Pro
65					70					75					80

Asp	Leu	Arg	Val	Pro	Leu	His	Gln	Leu	Gln	Gly	Arg	His	Gly	Val	Arg
				85					90					95	

Gly	Pro	Gly	His	Arg	Asp	Ser	Arg	Gly	Ser	Gly	Arg	Asn	Gly	Ser	Ile
			100					105					110		

Gln	Asn	Glu	Lys	Glu	Thr	Met	Gln	Lys	Leu	Asn	Asp	Arg	Leu	Ala	Ser
		115					120					125			

Tyr	Leu	Asp	Lys	Met	Lys	Glu	Pro	Gly	Asp	Arg	Glu	Thr	Gly	Gly	Trp
	130						135					140			

1433

Lys Ala Lys Thr Arg Glu His Phe Gly Glu Glu Gly Xaa Gln Val Arg
 145 150 155 160

Xaa Trp Xaa Pro Leu Ile Gln
 165

<210> 1376

<211> 448

<212> PRT

<213> Homo sapiens

<400> 1376

Leu Pro Asp Val Glu Lys Leu Gly Arg Arg Arg Gly Arg Lys Met Asp
 1 5 10 15

Ser Val Glu Lys Gly Ala Ala Thr Ser Val Ser Asn Pro Arg Gly Arg
 20 25 30

Pro Ser Arg Gly Arg Pro Pro Lys Leu Gln Arg Asn Ser Arg Gly Gly
 35 40 45

Gln Gly Arg Gly Val Glu Lys Pro Pro His Leu Ala Ala Leu Ile Leu
 50 55 60

Ala Arg Gly Gly Ser Lys Gly Ile Pro Leu Lys Asn Ile Lys His Leu
 65 70 75 80

Ala Gly Val Pro Leu Ile Gly Trp Val Leu Arg Ala Ala Leu Asp Ser
 85 90 95

Gly Ala Phe Gln Ser Val Trp Val Ser Thr Asp His Asp Glu Ile Glu
 100 105 110

Asn Val Ala Lys Gln Phe Gly Ala Gln Val His Arg Arg Ser Ser Glu
 115 120 125

Val Ser Lys Asp Ser Ser Thr Ser Leu Asp Ala Ile Ile Glu Phe Leu
 130 135 140

Asn Tyr His Asn Glu Val Asp Ile Val Gly Asn Ile Gln Ala Thr Ser
 145 150 155 160

Pro Cys Leu His Pro Thr Asp Leu Gln Lys Val Ala Glu Met Ile Arg
 165 170 175

Glu Glu Gly Tyr Asp Ser Val Phe Ser Val Val Arg Arg His Gln Phe
 180 185 190

1434

Arg Trp Ser Glu Ile Gln Lys Gly Val Arg Glu Val Thr Glu Pro Leu			
195	200	205	
Asn Leu Asn Pro Ala Lys Arg Pro Arg Arg Gln Asp Trp Asp Gly Glu			
210	215	220	
Leu Tyr Glu Asn Gly Ser Phe Tyr Phe Ala Lys Arg His Leu Ile Glu			
225	230	235	240
Met Gly Tyr Leu Gln Gly Gly Lys Met Ala Tyr Tyr Glu Met Arg Ala			
	245	250	255
Glu His Ser Val Asp Ile Asp Val Asp Ile Asp Trp Pro Ile Ala Glu			
	260	265	270
Gln Arg Val Leu Arg Tyr Gly Tyr Phe Gly Lys Glu Lys Leu Lys Glu			
	275	280	285
Ile Lys Leu Leu Val Cys Asn Ile Asp Gly Cys Leu Thr Asn Gly His			
	290	295	300
Ile Tyr Val Ser Gly Asp Gln Lys Glu Ile Ile Ser Tyr Asp Val Lys			
310	315		320
Asp Ala Ile Gly Ile Ser Leu Leu Lys Lys Ser Gly Ile Glu Val Arg			
	325	330	335
Leu Ile Ser Glu Arg Ala Cys Ser Lys Gln Thr Leu Ser Ser Leu Lys			
	340	345	350
Leu Asp Cys Lys Met Glu Val Ser Val Ser Asp Lys Leu Ala Val Val			
	355	360	365
Asp Glu Trp Arg Lys Glu Met Gly Leu Cys Trp Lys Glu Val Ala Tyr			
	370	375	380
Leu Gly Asn Glu Val Ser Asp Glu Glu Cys Leu Lys Arg Val Gly Leu			
385	390	395	400
Ser Gly Ala Pro Ala Asp Ala Cys Ser Thr Ala Gln Lys Ala Val Gly			
	405	410	415
Tyr Ile Cys Lys Cys Asn Gly Gly Arg Gly Ala Ile Arg Glu Phe Ala			
	420	425	430
Glu His Ile Cys Leu Leu Met Glu Lys Val Asn Asn Ser Cys Gln Lys			
	435	440	445

1435

<210> 1377

<211> 469

<212> PRT

<213> Homo sapiens

<400> 1377

Gly Gly Pro Ala Lys Met Ala Ala Ser Cys Leu Val Leu Leu Ala Leu
 1 5 10 15

Cys Leu Leu Leu Pro Leu Leu Leu Leu Gly Gly Trp Lys Arg Trp Arg
 20 25 30

Arg Gly Arg Ala Ala Arg His Val Val Ala Val Val Leu Gly Asp Val
 35 40 45

Gly Arg Ser Pro Arg Met Gln Tyr His Ala Leu Ser Leu Ala Met His
 50 55 60

Gly Phe Ser Val Thr Leu Leu Gly Phe Cys Asn Ser Lys Pro His Asp
 65 70 75 80

Glu Leu Leu Gln Asn Asn Arg Ile Gln Ile Val Gly Leu Thr Glu Leu
 85 90 95

Gln Ser Leu Ala Val Gly Pro Arg Val Phe Gln Tyr Gly Val Lys Val
 100 105 110

Val Leu Gln Ala Met Tyr Leu Leu Trp Lys Leu Met Trp Arg Glu Pro
 115 120 125

Gly Ala Tyr Ile Phe Leu Gln Asn Pro Pro Gly Leu Pro Ser Ile Ala
 130 135 140

Val Cys Trp Phe Val Gly Cys Leu Cys Gly Ser Lys Leu Val Ile Asp
 145 150 155 160

Trp His Asn Tyr Gly Tyr Ser Ile Met Gly Leu Val His Gly Pro Asn
 165 170 175

His Pro Leu Val Leu Leu Ala Lys Trp Tyr Glu Lys Phe Phe Gly Arg
 180 185 190

Leu Ser His Leu Asn Leu Cys Val Thr Asn Ala Met Arg Glu Asp Leu
 195 200 205

Ala Asp Asn Trp His Ile Arg Ala Val Thr Val Tyr Asp Lys Pro Ala
 210 215 220

Ser Phe Phe Lys Glu Thr Pro Leu Asp Leu Gln His Arg Leu Phe Met

1436

225 230 235 240
 Lys Leu Gly Ser Met His Ser Pro Phe Arg Ala Arg Ser Glu Pro Glu
 245 250 255
 Asp Pro Val Thr Glu Arg Ser Ala Phe Thr Glu Arg Asp Ala Gly Ser
 260 265 270
 Gly Leu Val Thr Arg Leu Arg Glu Arg Pro Ala Leu Leu Val Ser Ser
 275 280 285
 Thr Ser Trp Thr Glu Asp Glu Asp Phe Ser Ile Leu Leu Ala Ala Leu
 290 295 300
 Glu Lys Phe Glu Gln Leu Thr Leu Asp Gly His Asn Leu Pro Ser Leu
 305 310 315 320
 Val Cys Val Ile Thr Gly Lys Gly Pro Leu Arg Glu Tyr Tyr Ser Arg
 325 330 335
 Leu Ile His Gln Lys His Phe Gln His Ile Gln Val Cys Thr Pro Trp
 340 345 350
 Leu Glu Ala Glu Asp Tyr Pro Leu Leu Leu Gly Ser Ala Asp Leu Gly
 355 360 365
 Val Cys Leu His Thr Ser Ser Ser Gly Leu Asp Leu Pro Met Lys Val
 370 375 380
 Val Asp Met Phe Gly Cys Cys Leu Pro Val Cys Ala Val Asn Phe Lys
 385 390 395 400
 Cys Leu His Glu Leu Val Lys His Glu Glu Asn Gly Leu Val Phe Glu
 405 410 415
 Asp Ser Glu Glu Leu Ala Ala Gln Leu Gln Met Leu Phe Ser Asn Phe
 420 425 430
 Pro Asp Pro Ala Gly Lys Leu Asn Gln Phe Arg Lys Asn Leu Arg Glu
 435 440 445
 Ser Gln Gln Leu Arg Trp Asp Glu Ser Trp Val Gln Thr Val Leu Pro
 450 455 460
 Leu Val Met Asp Thr
 465

<210> 1378

<211> 314

1437

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1378

Glu	Lys	Ala	Ala	Gly	Ala	Gly	Lys	Ser	His	Leu	Ala	Ile	Val	Gln	Lys
1				5					10					15	
Val	Asn	Asn	Glu	Gly	Glu	Gly	Asp	Pro	Phe	Tyr	Glu	Val	Leu	Gly	Leu
			20					25					30		
Val	Thr	Leu	Glu	Asp	Val	Ile	Glu	Glu	Ile	Ile	Lys	Ser	Glu	Ile	Leu
		35					40					45			
Asp	Glu	Ser	Asp	Met	Tyr	Thr	Asp	Asn	Arg	Ser	Arg	Lys	Arg	Val	Ser
	50						55					60			
Glu	Lys	Asn	Lys	Arg	Asp	Phe	Ser	Ala	Phe	Lys	Asp	Ala	Asp	Asn	Glu
65					70					75					80
Leu	Lys	Val	Lys	Ile	Ser	Pro	Gln	Leu	Leu	Leu	Ala	Xaa	His	Arg	Phe
				85					90					95	
Leu	Ala	Thr	Glu	Val	Ser	Gln	Phe	Ser	Pro	Ser	Leu	Ile	Ser	Glu	Lys
			100						105					110	
Ile	Leu	Leu	Arg	Leu	Leu	Lys	Tyr	Pro	Asp	Val	Ile	Gln	Glu	Leu	Lys
	115						120					125			
Phe	Asp	Glu	His	Asn	Lys	Tyr	Tyr	Ala	Arg	His	Tyr	Leu	Tyr	Thr	Arg
	130						135					140			
Asn	Lys	Pro	Ala	Asp	Tyr	Phe	Ile	Leu	Ile	Leu	Gln	Gly	Lys	Val	Glu
145					150					155					160
Val	Glu	Ala	Gly	Lys	Glu	Asn	Met	Lys	Phe	Glu	Thr	Gly	Ala	Phe	Ser
				165					170					175	
Tyr	Tyr	Gly	Thr	Met	Ala	Leu	Thr	Ser	Val	Pro	Ser	Asp	Arg	Ser	Pro
			180					185					190		
Ala	His	Pro	Thr	Pro	Leu	Ser	Arg	Ser	Ala	Ser	Leu	Ser	Tyr	Pro	Asp
		195					200					205			
Arg	Thr	Asp	Val	Ser	Thr	Ala	Ala	Thr	Leu	Ala	Gly	Ser	Ser	Asn	Gln
	210						215				220				

1438

Phe Gly Ser Ser Val Leu Gly Gln Tyr Ile Ser Asp Phe Ser Val Arg
 225 230 235 240

Ala Leu Val Asp Leu Gln Tyr Ile Lys Ile Thr Arg Gln Gln Tyr Gln
 245 250 255

Asn Gly Leu Leu Ala Ser Arg Met Glu Asn Ser Pro Gln Phe Pro Ile
 260 265 270

Asp Gly Cys Thr Thr His Met Glu Asn Leu Ala Glu Lys Ser Glu Leu
 275 280 285

Pro Val Val Asp Glu Thr Thr Thr Leu Leu Asn Glu Arg Asn Ser Leu
 290 295 300

Leu His Lys Ala Ser His Glu Asn Ala Ile
 305 310

<210> 1379

<211> 131

<212> PRT

<213> Homo sapiens

<400> 1379

Ser Cys Pro Val Leu Lys Met Phe Pro Glu Gln Gln Lys Glu Glu Phe
 1 5 10 15

Val Ser Val Trp Val Arg Asp Pro Arg Ile Gln Lys Glu Asp Phe Trp
 20 25 30

His Ser Tyr Ile Asp Tyr Glu Ile Cys Ile His Thr Asn Ser Met Cys
 35 40 45

Phe Thr Met Lys Thr Ser Cys Val Arg Arg Arg Tyr Arg Glu Phe Val
 50 55 60

Trp Leu Arg Gln Arg Leu Gln Ser Asn Ala Leu Leu Val Gln Leu Pro
 65 70 75 80

Glu Leu Pro Ser Lys Asn Leu Phe Phe Asn Met Asn Asn Arg Gln His
 85 90 95

Val Asp Gln Arg Arg Gln Gly Leu Gly Asn Phe Leu Arg Lys Val Leu
 100 105 110

Gln Met His Phe Cys Phe Gln Ile Ala Ala Phe Thr Ser Ser Leu Gln
 115 120 125

Ser His Leu

1439

130

<210> 1380

<211> 219

<212> PRT

<213> Homo sapiens

<400> 1380

Pro Gly Ala Ala Trp Ser Arg Pro Asp Leu Arg Gly Cys Cys Thr Gly
 1 5 10 15

Pro Gln Pro Ala Leu Arg Met Leu Val Leu Pro Ser Pro Cys Pro Gln
 20 25 30

Pro Leu Ala Phe Ser Ser Val Glu Thr Met Glu Gly Pro Pro Arg Arg
 35 40 45

Thr Cys Arg Ser Pro Glu Pro Gly Pro Ser Ser Ser Ile Gly Ser Pro
 50 55 60

Gln Ala Ser Ser Pro Pro Arg Pro Asn His Tyr Leu Leu Ile Asp Thr
 65 70 75 80

Gln Gly Val Pro Tyr Thr Val Leu Val Asp Glu Glu Ser Gln Arg Glu
 85 90 95

Pro Gly Ala Ser Gly Ala Pro Gly Gln Lys Lys Cys Tyr Ser Cys Pro
 100 105 110

Val Cys Ser Arg Val Phe Glu Tyr Met Ser Tyr Leu Gln Arg His Ser
 115 120 125

Ile Thr His Ser Glu Val Lys Pro Phe Glu Cys Asp Ile Cys Gly Lys
 130 135 140

Ala Phe Lys Arg Ala Ser His Leu Ala Arg His His Ser Ile His Leu
 145 150 155 160

Ala Gly Gly Gly Arg Pro His Gly Cys Pro Leu Cys Pro Arg Arg Phe
 165 170 175

Arg Asp Ala Gly Glu Leu Ala Gln His Ser Arg Val His Ser Gly Glu
 180 185 190

Arg Pro Phe Gln Cys Pro His Cys Pro Arg Arg Phe Met Glu Gln Asn
 195 200 205

Thr Leu Gln Lys His Thr Arg Trp Lys His Pro
 210 215

1440

<210> 1381

<211> 275

<212> PRT

<213> Homo sapiens

<400> 1381

Gly Val Ala Leu Phe Lys Ser Ala Ala Gly Asp Gln Pro Thr Ala Ala
 1 5 10 15

Cys Ile Cys Ile Gln Arg Gln Val Pro Pro Val Pro Ala Ala Arg Ala
 20 25 30

Pro Gln Ser Arg Thr Arg Ser Ala Gln Ala Lys Leu Ala Leu Thr Met
 35 40 45

Pro Val Lys Gly Gly Thr Lys Cys Ile Lys Tyr Leu Leu Phe Gly Phe
 50 55 60

Asn Phe Ile Phe Trp Leu Ala Gly Ile Ala Val Leu Ala Ile Gly Leu
 65 70 75 80

Trp Leu Arg Phe Asp Ser Gln Thr Lys Ser Ile Phe Glu Gln Glu Thr
 85 90 95

Asn Asn Asn Asn Ser Ser Phe Tyr Thr Gly Val Tyr Ile Leu Ile Gly
 100 105 110

Ala Gly Ala Leu Met Met Leu Val Gly Phe Leu Gly Cys Cys Gly Ala
 115 120 125

Val Gln Glu Ser Gln Cys Met Leu Gly Leu Phe Phe Gly Phe Leu Leu
 130 135 140

Val Ile Phe Ala Ile Glu Ile Ala Ala Ala Ile Trp Gly Tyr Ser His
 145 150 155 160

Lys Asp Glu Val Ile Lys Glu Val Gln Glu Phe Tyr Lys Asp Thr Tyr
 165 170 175

Asn Lys Leu Lys Thr Lys Asp Glu Pro Gln Arg Glu Thr Leu Lys Ala
 180 185 190

Ile His Tyr Ala Leu Asn Cys Cys Gly Leu Ala Gly Gly Val Glu Gln
 195 200 205

Phe Ile Ser Asp Ile Cys Pro Lys Lys Asp Val Leu Glu Thr Phe Thr
 210 215 220

1441

Val Lys Ser Cys Pro Asp Ala Ile Lys Glu Val Phe Asp Asn Lys Phe
 225 230 235 240

His Ile Ile Gly Ala Val Gly Ile Gly Ile Ala Val Val Met Ile Phe
 245 250 255

Gly Met Ile Phe Ser Met Ile Leu Cys Cys Ala Ile Arg Arg Asn Arg
 260 265 270

Glu Met Val
 275

<210> 1382

<211> 766

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1382

Pro Cys Trp Glu Leu Val Gly Pro Pro Gly Trp Gln Xaa Ile Arg Ala
 1 5 10 15

Xaa Pro Ala Thr Val His Arg Ala Glu Ile Leu Ser Phe Pro Arg Ser
 20 25 30

Lys Thr Ser Glu Pro Ala Lys Arg Gly Arg Thr Ala Ser Ala Ala Met
 35 40 45

Ala Leu Lys Asp Tyr Ala Leu Glu Lys Glu Lys Val Lys Lys Phe Leu
 50 55 60

Gln Glu Phe Tyr Gln Asp Asp Glu Leu Gly Lys Lys Gln Phe Lys Tyr
 65 70 75 80

Gly Asn Gln Leu Val Arg Leu Ala His Arg Glu Gln Val Ala Leu Tyr

1442

85	90	95
Val Asp Leu Asp Asp Val Ala Glu Asp Asp Pro Glu Leu Val Asp Ser 100 105 110		
Ile Cys Glu Asn Ala Arg Arg Tyr Ala Lys Xaa Phe Ala Asp Ala Val 115 120 125		
Gln Glu Leu Leu Pro Gln Tyr Lys Glu Arg Glu Val Val Asn Lys Asp 130 135 140		
Val Leu Asp Val Tyr Ile Glu His Arg Leu Met Met Glu Gln Arg Ser 145 150 155 160		
Arg Asp Pro Gly Met Val Arg Ser Pro Gln Asn Gln Tyr Pro Ala Glu 165 170 175		
Leu Met Arg Arg Phe Glu Leu Tyr Phe Gln Gly Pro Ser Ser Asn Lys 180 185 190		
Pro Arg Val Ile Arg Glu Val Arg Ala Asp Ser Val Gly Lys Leu Val 195 200 205		
Thr Val Arg Gly Ile Val Thr Arg Val Ser Glu Val Lys Pro Lys Met 210 215 220		
Val Val Ala Thr Tyr Thr Cys Asp Gln Cys Gly Ala Glu Thr Tyr Gln 225 230 235 240		
Pro Ile Gln Ser Pro Thr Phe Met Pro Leu Ile Met Cys Pro Ser Gln 245 250 255		
Glu Cys Gln Thr Asn Arg Ser Gly Gly Arg Leu Tyr Leu Gln Thr Arg 260 265 270		
Gly Ser Arg Phe Ile Lys Phe Gln Glu Met Lys Met Gln Glu His Ser 275 280 285		
Asp Gln Val Pro Val Gly Asn Ile Pro Arg Ser Ile Thr Val Leu Val 290 295 300		
Glu Gly Glu Asn Thr Arg Ile Ala Gln Pro Gly Asp His Val Ser Val 305 310 315 320		
Thr Gly Ile Phe Leu Pro Ile Leu Arg Thr Gly Phe Arg Gln Val Val 325 330 335		
Gln Gly Leu Leu Ser Glu Thr Tyr Leu Glu Ala His Arg Ile Val Lys 340 345 350		
Met Asn Lys Ser Glu Asp Asp Glu Ser Gly Ala Gly Glu Leu Thr Arg		

1443

355	360	365
Glu Glu Leu Arg Gln Ile Ala Glu Glu Asp Phe Tyr Glu Lys Leu Ala		
370	375	380
Ala Ser Ile Ala Pro Glu Ile Tyr Gly His Glu Asp Val Lys Lys Ala		
385	390	395 400
Leu Leu Leu Leu Leu Val Gly Gly Val Asp Gln Ser Pro Arg Gly Met		
405	410	415
Lys Ile Arg Gly Asn Ile Asn Ile Cys Leu Met Gly Asp Pro Gly Val		
420	425	430
Ala Lys Ser Gln Leu Leu Ser Tyr Ile Asp Arg Leu Ala Pro Arg Ser		
435	440	445
Gln Tyr Thr Thr Gly Arg Gly Ser Ser Gly Val Gly Leu Thr Ala Ala		
450	455	460
Val Leu Arg Asp Ser Val Ser Gly Glu Leu Thr Leu Glu Gly Gly Ala		
465	470	475 480
Leu Val Leu Ala Asp Gln Gly Val Cys Cys Ile Asp Glu Phe Asp Lys		
485	490	495
Met Ala Glu Ala Asp Arg Thr Ala Ile His Glu Val Met Glu Gln Gln		
500	505	510
Thr Ile Ser Ile Ala Lys Ala Gly Ile Leu Thr Thr Leu Asn Ala Arg		
515	520	525
Cys Ser Ile Leu Ala Ala Ala Asn Pro Ala Tyr Gly Arg Tyr Asn Pro		
530	535	540
Arg Arg Ser Leu Glu Gln Asn Ile Gln Leu Pro Ala Ala Leu Leu Ser		
545	550	555 560
Arg Phe Asp Leu Leu Trp Leu Ile Gln Asp Arg Pro Asp Arg Asp Asn		
565	570	575
Asp Leu Arg Leu Ala Gln His Ile Thr Tyr Val His Gln His Ser Arg		
580	585	590
Gln Pro Pro Ser Gln Phe Glu Pro Leu Asp Met Lys Leu Met Arg Arg		
595	600	605
Tyr Ile Ala Met Cys Arg Glu Lys Gln Pro Met Val Pro Glu Ser Leu		
610	615	620
Ala Asp Tyr Ile Thr Ala Ala Tyr Val Glu Met Arg Arg Glu Ala Trp		

1444

625 630 635 640
 Ala Ser Lys Asp Ala Thr Tyr Thr Ser Ala Arg Thr Leu Leu Ala Ile
 645 650 655
 Leu Arg Leu Ser Thr Ala Leu Ala Arg Leu Arg Met Val Asp Val Val
 660 665 670
 Glu Lys Glu Asp Val Asn Glu Ala Ile Arg Leu Met Glu Met Ser Lys
 675 680 685
 Asp Ser Leu Leu Gly Asp Lys Gly Gln Thr Ala Arg Thr Gln Arg Pro
 690 695 700
 Ala Asp Val Ile Phe Ala Thr Val Arg Glu Leu Val Ser Gly Gly Arg
 705 710 715 720
 Ser Val Arg Phe Ser Glu Ala Glu Gln Arg Cys Val Ser Arg Gly Phe
 725 730 735
 Thr Pro Ala Gln Phe Gln Ala Ala Leu Asp Glu Tyr Glu Glu Leu Asn
 740 745 750
 Val Trp Gln Val Asn Ala Ser Arg Thr Arg Ile Thr Phe Val
 755 760 765

<210> 1383

<211> 296

<212> PRT

<213> Homo sapiens

<400> 1383

Phe Arg Pro Gly Ser Pro Arg Gln Pro Arg Ala Gln Pro Ile Ser Ala
 1 5 10 15
 Pro Asp Cys Thr Arg Ala Met Val Gly Arg Arg Ala Leu Ile Val Leu
 20 25 30
 Ala His Ser Glu Arg Thr Ser Phe Asn Tyr Ala Met Lys Glu Ala Ala
 35 40 45
 Ala Ala Ala Leu Lys Lys Lys Gly Trp Glu Val Val Glu Ser Asp Leu
 50 55 60
 Tyr Ala Met Asn Phe Asn Pro Ile Ile Ser Arg Lys Asp Ile Thr Gly
 65 70 75 80
 Lys Leu Lys Asp Pro Ala Asn Phe Gln Tyr Pro Ala Glu Ser Val Leu
 85 90 95

1445

Ala Tyr Lys Glu Gly His Leu Ser Pro Asp Ile Val Ala Glu Gln Lys
 100 105 110

Lys Leu Glu Ala Ala Asp Leu Val Ile Phe Gln Phe Pro Leu Gln Trp
 115 120 125

Phe Gly Val Pro Ala Ile Leu Lys Gly Trp Phe Glu Arg Val Phe Ile
 130 135 140

Gly Glu Phe Ala Tyr Thr Tyr Ala Ala Met Tyr Asp Lys Gly Pro Phe
 145 150 155 160

Arg Ser Lys Lys Ala Val Leu Ser Ile Thr Thr Gly Gly Ser Gly Ser
 165 170 175

Met Tyr Ser Leu Gln Gly Ile His Gly Asp Met Asn Val Ile Leu Trp
 180 185 190

Pro Ile Gln Ser Gly Ile Leu His Phe Cys Gly Phe Gln Val Leu Glu
 195 200 205

Pro Gln Leu Thr Tyr Ser Ile Gly His Thr Pro Ala Asp Ala Arg Ile
 210 215 220

Gln Ile Leu Glu Gly Trp Lys Lys Arg Leu Glu Asn Ile Trp Asp Glu
 225 230 235 240

Thr Pro Leu Tyr Phe Ala Pro Ser Ser Leu Phe Asp Leu Asn Phe Gln
 245 250 255

Ala Gly Phe Leu Met Lys Lys Glu Val Gln Asp Glu Glu Lys Asn Lys
 260 265 270

Lys Phe Gly Leu Ser Val Gly His His Leu Gly Lys Ser Ile Pro Thr
 275 280 285

Asp Asn Gln Ile Lys Ala Arg Lys
 290 295

<210> 1384

<211> 165

<212> PRT

<213> Homo sapiens

<400> 1384

Asp Pro Arg Thr Met Asn Leu Ala Ile Ser Ile Ala Leu Leu Leu Thr
 1 5 10 15

1446

Val Leu Gln Val Ser Arg Gly Gln Lys Val Thr Ser Leu Thr Ala Cys
 20 25 30
 Leu Val Asp Gln Ser Leu Arg Leu Asp Cys Arg His Glu Asn Thr Ser
 35 40 45
 Ser Ser Pro Ile Gln Tyr Glu Phe Ser Leu Thr Arg Glu Thr Lys Lys
 50 55 60
 His Val Leu Phe Gly Thr Val Gly Val Pro Glu His Thr Tyr Arg Ser
 65 70 75 80
 Arg Thr Asn Phe Thr Ser Lys Tyr Asn Met Lys Val Leu Tyr Leu Ser
 85 90 95
 Ala Phe Thr Ser Lys Asp Glu Gly Thr Tyr Thr Cys Ala Leu His His
 100 105 110
 Ser Gly His Ser Pro Pro Ile Ser Ser Gln Asn Val Thr Val Leu Arg
 115 120 125
 Asp Lys Leu Val Lys Cys Glu Gly Ile Ser Leu Leu Ala Gln Asn Thr
 130 135 140
 Ser Trp Leu Leu Leu Leu Leu Leu Ser Leu Ser Leu Leu Gln Ala Thr
 145 150 155 160
 Asp Phe Met Ser Leu
 165

<210> 1385

<211> 399

<212> PRT

<213> Homo sapiens

<400> 1385

His Glu Arg Thr Pro Ser Arg Pro Gln Pro Asp Thr Pro Arg Gly Pro
 1 5 10 15
 Pro Val Ser Arg Gly Cys Ser Pro Arg His Gly Thr Gly Pro Arg Leu
 20 25 30
 Thr Met Ala Ala Ala Arg His Ser Thr Leu Asp Phe Met Leu Gly Ala
 35 40 45
 Lys Ala Asp Gly Glu Thr Ile Leu Lys Gly Leu Gln Ser Ile Phe Gln
 50 55 60
 Glu Gln Gly Met Ala Glu Ser Val His Thr Trp Gln Asp His Gly Tyr

1447

65	70	75	80
Leu Ala Thr Tyr Thr Asn Lys Asn Gly Ser Phe Ala Asn Leu Arg Ile	85	90	95
Tyr Pro His Gly Leu Val Leu Leu Asp Leu Gln Ser Tyr Asp Gly Asp	100	105	110
Ala Gln Gly Lys Glu Glu Ile Asp Ser Ile Leu Asn Lys Val Glu Glu	115	120	125
Arg Met Lys Glu Leu Ser Gln Asp Ser Thr Gly Arg Val Lys Arg Leu	130	135	140
Pro Pro Ile Val Arg Gly Gly Ala Ile Asp Arg Tyr Trp Pro Thr Ala	145	150	155
Asp Gly Arg Leu Val Glu Tyr Asp Ile Asp Glu Val Val Tyr Asp Glu	165	170	175
Asp Ser Pro Tyr Gln Asn Ile Lys Ile Leu His Ser Lys Gln Phe Gly	180	185	190
Asn Ile Leu Ile Leu Ser Gly Asp Val Asn Leu Ala Glu Ser Asp Leu	195	200	205
Ala Tyr Thr Arg Ala Ile Met Gly Ser Gly Lys Glu Asp Tyr Thr Gly	210	215	220
Lys Asp Val Leu Ile Leu Gly Gly Gly Asp Gly Gly Ile Leu Cys Glu	225	230	235
Ile Val Lys Leu Lys Pro Lys Met Val Thr Met Val Glu Ile Asp Gln	245	250	255
Met Val Ile Asp Gly Cys Lys Lys Tyr Met Arg Lys Thr Cys Gly Asp	260	265	270
Val Leu Asp Asn Leu Lys Gly Asp Cys Tyr Gln Val Leu Ile Glu Asp	275	280	285
Cys Ile Pro Val Leu Lys Arg Tyr Ala Lys Glu Gly Arg Glu Phe Asp	290	295	300
Tyr Val Ile Asn Asp Leu Thr Ala Val Pro Ile Ser Thr Ser Pro Glu	305	310	315
Glu Asp Ser Thr Trp Glu Phe Leu Arg Leu Ile Leu Asp Leu Ser Met	325	330	335
Lys Val Leu Lys Gln Asp Gly Lys Tyr Phe Thr Gln Gly Asn Cys Val			

1448

340 345 350
 Asn Leu Thr Glu Ala Leu Ser Leu Tyr Glu Glu Gln Leu Gly Arg Leu
 355 360 365
 Tyr Cys Pro Val Glu Phe Ser Lys Glu Ile Val Cys Val Pro Ser Tyr
 370 375 380
 Leu Glu Leu Trp Val Phe Tyr Thr Val Trp Lys Lys Ala Lys Pro
 385 390 395

 <210> 1386
 <211> 287
 <212> PRT
 <213> Homo sapiens

 <400> 1386
 Phe Asp Cys Arg Asp Val Ala Phe Thr Val Gly Glu Gly Glu Asp His
 1 5 10 15
 Asp Ile Pro Ile Gly Ile Asp Lys Ala Leu Glu Lys Met Gln Arg Glu
 20 25 30
 Glu Gln Cys Ile Leu Tyr Leu Gly Pro Arg Tyr Gly Phe Gly Glu Ala
 35 40 45
 Gly Lys Pro Lys Phe Gly Ile Glu Pro Asn Ala Glu Leu Ile Tyr Glu
 50 55 60
 Val Thr Leu Lys Ser Phe Glu Lys Ala Lys Glu Ser Trp Glu Met Asp
 65 70 75 80
 Thr Lys Glu Lys Leu Glu Gln Ala Ala Ile Val Lys Glu Lys Gly Thr
 85 90 95
 Val Tyr Phe Lys Gly Gly Lys Tyr Met Gln Ala Val Ile Gln Tyr Gly
 100 105 110
 Lys Ile Val Ser Trp Leu Glu Met Glu Tyr Gly Leu Ser Glu Lys Glu
 115 120 125
 Ser Lys Ala Ser Glu Ser Phe Leu Leu Ala Ala Phe Leu Asn Leu Ala
 130 135 140
 Met Cys Tyr Leu Lys Leu Arg Glu Tyr Thr Lys Ala Val Glu Cys Cys
 145 150 155 160
 Asp Lys Ala Leu Gly Leu Asp Ser Ala Asn Glu Lys Gly Leu Tyr Arg
 165 170 175

1449

Arg Gly Glu Ala Gln Leu Leu Met Asn Glu Phe Glu Ser Ala Lys Gly
 180 185 190

Asp Phe Glu Lys Val Leu Glu Val Asn Pro Gln Asn Lys Ala Ala Arg
 195 200 205

Leu Gln Ile Ser Met Cys Gln Lys Lys Ala Lys Glu His Asn Glu Arg
 210 215 220

Asp Arg Arg Tyr Thr Pro Thr Cys Ser Arg Ser Leu Gln Ser Arg Met
 225 230 235 240

Pro Arg Lys Arg Pro Ile Lys Gln Trp Ala Arg Arg Leu Gln Lys Gly
 245 250 255

Ser Leu Met Lys Lys Glu Gln Thr Val Lys Gln Trp Lys Lys Arg Asn
 260 265 270

Leu Arg Ala Thr Tyr Asp Ala Thr Pro Arg Arg Glu Glu Ser Gln
 275 280 285

<210> 1387

<211> 206

<212> PRT

<213> Homo sapiens

<400> 1387

Arg Leu Pro Ile Arg Gln Ser Ala Ala Asp Gly Leu Arg Ala Arg Pro
 1 5 10 15

Leu Gly Ser Asn Thr Ala Pro Ala Leu Arg Val Met Val Gln Ala Trp
 20 25 30

Tyr Met Asp Asp Ala Pro Gly Asp Pro Arg Gln Pro His Arg Pro Asp
 35 40 45

Pro Gly Arg Pro Val Gly Leu Glu Gln Leu Arg Arg Leu Gly Val Leu
 50 55 60

Tyr Trp Lys Leu Asp Ala Asp Lys Tyr Glu Asn Asp Pro Glu Leu Glu
 65 70 75 80

Lys Ile Arg Arg Glu Arg Asn Tyr Ser Trp Met Asp Ile Ile Thr Ile
 85 90 95

Cys Lys Asp Lys Leu Pro Asn Tyr Glu Glu Lys Ile Lys Met Phe Tyr
 100 105 110

1450

Glu Glu His Leu His Leu Asp Asp Glu Ile Arg Tyr Ile Leu Asp Gly
 115 120 125

Ser Gly Tyr Phe Asp Val Arg Asp Lys Glu Asp Gln Trp Ile Arg Ile
 130 135 140

Phe Met Glu Lys Gly Asp Met Val Thr Leu Pro Ala Gly Ile Tyr His
 145 150 155 160

Arg Phe Thr Val Asp Glu Lys Asn Tyr Thr Lys Ala Met Arg Leu Phe
 165 170 175

Val Gly Glu Pro Val Trp Thr Ala Tyr Asn Arg Pro Ala Asp His Phe
 180 185 190

Glu Ala Arg Gly Gln Tyr Val Lys Phe Leu Ala Gln Thr Ala
 195 200 205

<210> 1388

<211> 394

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1388

Phe His Xaa Ala Ala His Tyr Ser Leu Pro Asp Gly Arg His Gly Arg
 1 5 10 15

Leu Asp Ser Pro Thr Phe His Leu Thr Leu His Tyr Pro Thr Glu His
 20 25 30

Val Gln Phe Trp Val Gly Ser Pro Ser Thr Pro Ala Gly Trp Val Arg
 35 40 45

Glu Gly Asp Thr Val Gln Leu Leu Cys Arg Gly Asp Gly Ser Pro Ser
 50 55 60

Pro Glu Tyr Thr Leu Phe Arg Leu Gln Asp Glu Gln Glu Glu Val Leu
 65 70 75 80

Asn Val Asn Leu Glu Gly Asn Leu Thr Leu Glu Gly Val Thr Arg Gly
 85 90 95

Gln Ser Gly Thr Tyr Gly Cys Arg Val Glu Asp Tyr Asp Ala Ala Asp
 100 105 110

1451

Asp Val Gln Leu Ser Lys Thr Leu Glu Leu Arg Val Ala Tyr Leu Asp
 115 120 125

Pro Leu Glu Leu Ser Glu Gly Lys Val Leu Ser Leu Pro Leu Asn Ser
 130 135 140

Ser Ala Val Val Asn Cys Ser Val His Gly Leu Pro Thr Pro Ala Leu
 145 150 155 160

Arg Trp Thr Lys Asp Ser Thr Pro Leu Gly Asp Gly Pro Met Leu Ser
 165 170 175

Leu Ser Ser Ile Thr Phe Asp Ser Asn Gly Thr Tyr Val Cys Glu Ala
 180 185 190

Ser Leu Pro Thr Val Pro Val Leu Ser Arg Thr Gln Asn Phe Thr Leu
 195 200 205

Leu Val Gln Gly Ser Pro Glu Leu Lys Thr Ala Glu Ile Glu Pro Lys
 210 215 220

Ala Asp Gly Ser Trp Arg Glu Gly Asp Glu Val Thr Leu Ile Cys Ser
 225 230 235 240

Ala Arg Gly His Pro Asp Pro Lys Leu Ser Trp Ser Gln Leu Gly Gly
 245 250 255

Ser Pro Ala Glu Pro Ile Pro Gly Arg Gln Gly Trp Val Ser Ser Ser
 260 265 270

Leu Thr Leu Lys Val Thr Ser Ala Leu Ser Arg Asp Gly Ile Ser Cys
 275 280 285

Glu Ala Ser Asn Pro His Gly Asn Lys Arg His Val Phe His Phe Gly
 290 295 300

Thr Val Ser Pro Gln Thr Ser Gln Ala Gly Val Ala Val Met Ala Val
 305 310 315 320

Ala Val Ser Val Gly Leu Leu Leu Leu Val Val Ala Val Phe Tyr Cys
 325 330 335

Val Arg Arg Lys Gly Gly Pro Cys Cys Arg Gln Arg Arg Glu Lys Gly
 340 345 350

Ala Pro Pro Pro Gly Glu Pro Gly Leu Ser His Ser Gly Ser Glu Gln
 355 360 365

Pro Glu Gln Thr Gly Leu Leu Met Gly Gly Ala Ser Gly Gly Ala Arg
 370 375 380

1452

Gly Gly Ser Gly Gly Phe Gly Asp Glu Cys
 385 390

<210> 1389

<211> 264

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1389

Val Gly Cys Arg Trp Ser Arg Val Gly Pro Gln Asn Pro Arg Val Xaa
 1 5 10 15

Leu Pro Pro Pro Thr Leu Ala Met Phe Leu Thr Arg Ser Glu Tyr Asp
 20 25 30

Arg Gly Val Asn Thr Phe Ser Pro Glu Gly Arg Leu Phe Gln Val Glu
 35 40 45

Tyr Ala Ile Glu Ala Ile Lys Leu Gly Ser Thr Ala Ile Gly Ile Gln
 50 55 60

Thr Ser Glu Gly Val Cys Leu Ala Val Glu Lys Arg Ile Thr Ser Pro
 65 70 75 80

Leu Met Glu Pro Ser Ser Ile Glu Lys Ile Val Glu Ile Asp Ala His
 85 90 95

Ile Gly Cys Ala Met Ser Gly Leu Ile Ala Asp Ala Lys Thr Leu Ile
 100 105 110

Asp Lys Ala Arg Val Glu Thr Gln Asn His Trp Phe Thr Tyr Asn Glu
 115 120 125

Thr Met Thr Val Glu Ser Val Thr Gln Ala Val Ser Asn Leu Ala Leu
 130 135 140

Gln Phe Gly Glu Glu Asp Ala Asp Pro Gly Ala Met Ser Arg Pro Phe
 145 150 155 160

Gly Val Ala Leu Leu Phe Gly Gly Val Asp Glu Lys Gly Pro Gln Leu
 165 170 175

Phe His Met Asp Pro Ser Gly Thr Phe Val Gln Cys Asp Ala Arg Ala

1453

180 185 190
 Ile Gly Ser Ala Ser Glu Gly Ala Gln Ser Ser Leu Gln Glu Val Tyr
 195 200 205
 His Lys Ser Met Thr Leu Lys Glu Ala Ile Lys Ser Ser Leu Ile Ile
 210 215 220
 Leu Lys Gln Val Met Glu Glu Lys Leu Asn Ala Thr Asn Ile Glu Leu
 225 230 235 240
 Ala Thr Val Gln Pro Gly Gln Asn Phe His Met Phe Thr Lys Glu Glu
 245 250 255
 Leu Glu Glu Val Ile Lys Asp Ile
 260

 <210> 1390
 <211> 178
 <212> PRT
 <213> Homo sapiens

 <400> 1390
 Gln Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr Ser Gly
 1 5 10 15
 Ser Pro Gly Leu Phe Gly Leu Ser Ala Arg Arg Leu Leu Ala Ala Ala
 20 25 30
 Ala Thr Arg Gly Leu Pro Ala Ala Arg Val Arg Trp Glu Ser Ser Phe
 35 40 45
 Ser Arg Thr Val Val Ala Pro Ser Ala Val Ala Gly Lys Arg Pro Pro
 50 55 60
 Glu Pro Thr Thr Pro Trp Gln Glu Asp Pro Glu Pro Glu Asp Glu Asn
 65 70 75 80
 Leu Tyr Glu Lys Asn Pro Asp Ser His Gly Tyr Asp Lys Asp Pro Val
 85 90 95
 Leu Asp Val Trp Asn Met Arg Leu Val Phe Phe Phe Gly Val Ser Ile
 100 105 110
 Ile Leu Val Leu Gly Ser Thr Phe Val Ala Tyr Leu Pro Asp Tyr Arg
 115 120 125
 Cys Thr Gly Cys Pro Arg Ala Trp Asp Gly Met Lys Glu Trp Ser Arg
 130 135 140

1454

Arg Glu Ala Glu Arg Leu Val Lys Tyr Arg Glu Ala Asn Gly Leu Pro
 145 150 155 160

Ile Met Glu Ser Asn Cys Phe Asp Pro Ser Lys Ile Gln Leu Pro Glu
 165 170 175

Asp Glu

<210> 1391

<211> 133

<212> PRT

<213> Homo sapiens

<400> 1391

Val Ile Ile Thr Ser Ile Asn Gln Lys Ile Phe His Pro Leu Arg Ala
 1 5 10 15

Leu Lys Leu Ser Thr Ser Ala Thr Phe Leu Ile Leu Val Leu Gly Gly
 20 25 30

His Val Tyr Gly Leu Phe Asn Phe His Val Pro Tyr Cys Pro Leu Pro
 35 40 45

Ala Val Ala Lys Ala Ser Cys Phe Ser Pro Thr Glu Glu Thr Val Leu
 50 55 60

Cys His Asp Asp Arg Ala Leu Leu Gly Leu Val Phe Leu Val Phe Pro
 65 70 75 80

Phe Trp Gln Cys Gly Leu Gln Glu Leu Asp Val Tyr Ala Gln Gly Ile
 85 90 95

Glu Phe Thr Leu Lys Leu Gly Asn Gly Val Phe Asn Leu Cys Ser Cys
 100 105 110

Leu Phe Ile Leu Leu Phe Ile Phe Cys His Pro Ala Leu Tyr Trp Ala
 115 120 125

Asn Asn Glu Ile Lys
 130

<210> 1392

<211> 401

<212> PRT

<213> Homo sapiens

1455

<400> 1392

Asn Thr Val Leu Lys Lys Met Asp Glu Glu Pro Glu Arg Thr Lys Arg
 1 5 10 15
 Trp Glu Gly Gly Tyr Glu Arg Thr Trp Glu Ile Leu Lys Glu Asp Glu
 20 25 30
 Ser Gly Ser Leu Lys Ala Thr Ile Glu Asp Ile Leu Phe Lys Ala Lys
 35 40 45
 Arg Lys Arg Val Phe Glu His His Gly Gln Val Arg Leu Gly Met Met
 50 55 60
 Arg His Leu Tyr Val Val Val Asp Gly Ser Arg Thr Met Glu Asp Gln
 65 70 75 80
 Asp Leu Lys Pro Asn Arg Leu Thr Cys Thr Leu Lys Leu Leu Glu Tyr
 85 90 95
 Phe Val Glu Glu Tyr Phe Asp Gln Asn Pro Ile Ser Gln Ile Gly Ile
 100 105 110
 Ile Val Thr Lys Ser Lys Arg Ala Glu Lys Leu Thr Glu Leu Ser Gly
 115 120 125
 Asn Pro Arg Lys His Ile Thr Ser Leu Lys Lys Ala Val Asp Met Thr
 130 135 140
 Cys His Gly Glu Pro Ser Leu Tyr Asn Ser Leu Ser Ile Ala Met Gln
 145 150 155 160
 Thr Leu Lys His Met Pro Gly His Thr Ser Arg Glu Val Leu Ile Ile
 165 170 175
 Phe Ser Ser Leu Thr Thr Cys Asp Pro Ser Asn Ile Tyr Asp Leu Ile
 180 185 190
 Lys Thr Leu Lys Ala Ala Lys Ile Arg Val Ser Val Ile Gly Leu Ser
 195 200 205
 Ala Glu Val Arg Val Cys Thr Val Leu Ala Arg Glu Thr Gly Gly Thr
 210 215 220
 Tyr His Val Ile Leu Asp Glu Ser His Tyr Lys Glu Leu Leu Thr His
 225 230 235 240
 His Val Ser Pro Pro Pro Ala Ser Ser Ser Ser Glu Cys Ser Leu Ile
 245 250 255
 Arg Met Gly Phe Pro Gln His Thr Ile Ala Ser Leu Ser Asp Gln Asp

1456

260 265 270
 Ala Lys Pro Ser Phe Ser Met Ala His Leu Asp Gly Asn Thr Glu Pro
 275 280 285
 Gly Leu Thr Leu Gly Gly Tyr Phe Cys Pro Gln Cys Arg Ala Lys Tyr
 290 295 300
 Cys Glu Leu Pro Val Glu Cys Lys Ile Cys Gly Leu Thr Leu Val Ser
 305 310 315 320
 Ala Pro His Leu Ala Arg Ser Tyr His His Leu Phe Pro Leu Asp Ala
 325 330 335
 Phe Gln Glu Ile Pro Leu Glu Glu Tyr Asn Gly Glu Arg Phe Cys Tyr
 340 345 350
 Gly Cys Gln Gly Glu Leu Lys Asp Gln His Val Tyr Val Cys Ala Val
 355 360 365
 Cys Gln Asn Val Phe Cys Val Asp Cys Asp Val Phe Val His Asp Ser
 370 375 380
 Leu His Cys Cys Pro Gly Cys Ile His Lys Ile Pro Ala Pro Ser Gly
 385 390 395 400
 Val

<210> 1393

<211> 318

<212> PRT

<213> Homo sapiens

<400> 1393

Pro Glu Gly Leu Pro Arg Phe Asn Asn Asn Phe Met Ala Pro Gly Ser
 1 5 10 15
 Ala Ser Ser Pro Ser Pro Ser Phe Pro Ala Ser Arg Pro Trp Ala Ala
 20 25 30
 Val Gly Thr Met Ala Ala Ala Ala Ala Ala Gly Pro Ser Pro Gly Ser
 35 40 45
 Gly Pro Gly Asp Ser Pro Glu Gly Pro Glu Gly Glu Ala Pro Glu Arg
 50 55 60
 Arg Arg Lys Ala His Gly Met Leu Lys Leu Tyr Tyr Gly Leu Ser Glu
 65 70 75 80

1457

Gly Glu Ala Ala Gly Arg Pro Ala Gly Pro Asp Pro Leu Asp Pro Thr
85 90 95

Asp Leu Asn Gly Ala His Phe Asp Pro Glu Val Tyr Leu Asp Lys Leu
100 105 110

Arg Arg Glu Cys Pro Leu Ala Gln Leu Met Asp Ser Glu Thr Asp Met
115 120 125

Val Arg Gln Ile Arg Ala Leu Asp Ser Asp Met Gln Thr Leu Val Tyr
130 135 140

Glu Asn Tyr Asn Lys Phe Ile Ser Ala Thr Asp Thr Ile Arg Lys Met
145 150 155 160

Lys Asn Asp Phe Arg Lys Met Glu Asp Glu Met Asp Arg Leu Ala Thr
165 170 175

Asn Met Ala Val Ile Thr Asp Phe Ser Ala Arg Ile Ser Ala Thr Leu
180 185 190

Gln Asp Arg His Glu Arg Ile Thr Lys Leu Ala Gly Val His Ala Leu
195 200 205

Leu Arg Lys Leu Gln Phe Leu Phe Glu Leu Pro Ser Arg Leu Thr Lys
210 215 220

Cys Val Glu Leu Gly Ala Tyr Gly Gln Ala Val Arg Tyr Gln Gly Arg
225 230 235 240

Ala Gln Ala Val Leu Gln Gln Tyr Gln His Leu Pro Ser Phe Arg Ala
245 250 255

Ile Gln Asp Asp Cys Gln Val Ile Thr Ala Arg Leu Ala Gln Gln Leu
260 265 270

Arg Gln Arg Phe Arg Glu Gly Gly Ser Gly Ala Pro Glu Gln Ala Glu
275 280 285

Cys Val Glu Leu Leu Leu Ala Leu Gly Glu Pro Ala Glu Glu Leu Cys
290 295 300

Glu Glu Phe Trp Arg Thr Pro Ala Ala Gly Trp Arg Arg Ser
305 310 315

<210> 1394

<211> 1285

<212> PRT

1458

<213> Homo sapiens

<400> 1394

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Phe Ser Phe Pro Leu Ser Ser Glu Pro Phe Gln Gly Ser Tyr Lys Val
 1             5             10             15

Val Val Gln Lys Lys Ser Gly Gly Arg Thr Glu His Pro Phe Thr Val
          20             25             30

Glu Glu Phe Val Leu Pro Lys Phe Glu Val Gln Val Thr Val Pro Lys
          35             40             45

Ile Ile Thr Ile Leu Glu Glu Glu Met Asn Val Ser Val Cys Gly Leu
          50             55             60

Tyr Thr Tyr Gly Lys Pro Val Pro Gly His Val Thr Val Ser Ile Cys
          65             70             75             80

Arg Lys Tyr Ser Asp Ala Ser Asp Cys His Gly Glu Asp Ser Gln Ala
          85             90             95

Phe Cys Glu Lys Phe Ser Gly Gln Leu Asn Ser His Gly Cys Phe Tyr
          100            105            110

Gln Gln Val Lys Thr Lys Val Phe Gln Leu Lys Arg Lys Glu Tyr Glu
          115            120            125

Met Lys Leu His Thr Glu Ala Gln Ile Gln Glu Glu Gly Thr Val Val
          130            135            140

Glu Leu Thr Gly Arg Gln Ser Ser Glu Ile Thr Arg Thr Ile Thr Lys
          145            150            155            160

Leu Ser Phe Val Lys Val Asp Ser His Phe Arg Gln Gly Ile Pro Phe
          165            170            175

Phe Gly Gln Val Arg Leu Val Asp Gly Lys Gly Val Pro Ile Pro Asn
          180            185            190

Lys Val Ile Phe Ile Arg Gly Asn Glu Ala Asn Tyr Tyr Ser Asn Ala
          195            200            205

Thr Thr Asp Glu His Gly Leu Val Gln Phe Ser Ile Asn Thr Thr Asn
          210            215            220

Val Met Gly Thr Ser Leu Thr Val Arg Val Asn Tyr Lys Asp Arg Ser
          225            230            235            240

Pro Cys Tyr Gly Tyr Gln Trp Val Ser Glu Glu His Glu Glu Ala His
          245            250            255

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1459

His Thr Ala Tyr Leu Val Phe Ser Pro Ser Lys Ser Phe Val His Leu
 260 265 270

Glu Pro Met Ser His Glu Leu Pro Cys Gly His Thr Gln Thr Val Gln
 275 280 285

Ala His Tyr Ile Leu Asn Gly Gly Thr Leu Leu Gly Leu Lys Lys Leu
 290 295 300

Ser Phe Tyr Tyr Leu Ile Met Ala Lys Gly Gly Ile Val Arg Thr Gly
 305 310 315 320

Thr His Gly Leu Leu Val Lys Gln Glu Asp Met Lys Gly His Phe Ser
 325 330 335

Ile Ser Ile Pro Val Lys Ser Asp Ile Ala Pro Val Ala Arg Leu Leu
 340 345 350

Ile Tyr Ala Val Leu Pro Thr Gly Asp Val Ile Gly Asp Ser Ala Lys
 355 360 365

Tyr Asp Val Glu Asn Cys Leu Ala Asn Lys Val Asp Leu Ser Phe Ser
 370 375 380

Pro Ser Gln Ser Leu Pro Ala Ser His Ala His Leu Arg Val Thr Ala
 385 390 395 400

Ala Pro Gln Ser Val Cys Ala Leu Arg Ala Val Asp Gln Ser Val Leu
 405 410 415

Leu Met Lys Pro Asp Ala Glu Leu Ser Ala Ser Ser Val Tyr Asn Leu
 420 425 430

Leu Pro Glu Lys Asp Leu Thr Gly Phe Pro Gly Pro Leu Asn Asp Gln
 435 440 445

Asp Asp Glu Asp Cys Ile Asn Arg His Asn Val Tyr Ile Asn Gly Ile
 450 455 460

Thr Tyr Thr Pro Val Ser Ser Thr Asn Glu Lys Asp Met Tyr Ser Phe
 465 470 475 480

Leu Glu Asp Met Gly Leu Lys Ala Phe Thr Asn Ser Lys Ile Arg Lys
 485 490 495

Pro Lys Met Cys Pro Gln Leu Gln Gln Tyr Glu Met His Gly Pro Glu
 500 505 510

Gly Leu Arg Val Gly Phe Tyr Glu Ser Asp Val Met Gly Arg Gly His
 515 520 525

1460

Ala Arg Leu Val His Val Glu Glu Pro His Thr Glu Thr Val Arg Lys
 530 535 540

Tyr Phe Pro Glu Thr Trp Ile Trp Asp Leu Val Val Val Asn Ser Ala
 545 550 555 560

Gly Val Ala Glu Val Gly Val Thr Val Pro Asp Thr Ile Thr Glu Trp
 565 570 575

Lys Ala Gly Ala Phe Cys Leu Ser Glu Asp Ala Gly Leu Gly Ile Ser
 580 585 590

Ser Thr Ala Ser Leu Arg Ala Phe Gln Pro Phe Phe Val Glu Leu Thr
 595 600 605

Met Pro Tyr Ser Val Ile Arg Gly Glu Ala Phe Thr Leu Lys Ala Thr
 610 615 620

Val Leu Asn Tyr Leu Pro Lys Cys Ile Arg Val Ser Val Gln Leu Glu
 625 630 635 640

Ala Ser Pro Ala Phe Leu Ala Val Pro Val Glu Lys Glu Gln Ala Pro
 645 650 655

His Cys Ile Cys Ala Asn Gly Arg Gln Thr Val Ser Trp Ala Val Thr
 660 665 670

Pro Lys Ser Leu Gly Asn Val Asn Phe Thr Val Ser Ala Glu Ala Leu
 675 680 685

Glu Ser Gln Glu Leu Cys Gly Thr Glu Val Pro Ser Val Pro Glu His
 690 695 700

Gly Arg Lys Asp Thr Val Ile Lys Pro Leu Leu Val Glu Pro Glu Gly
 705 710 715 720

Leu Glu Lys Glu Thr Thr Phe Asn Ser Leu Leu Cys Pro Ser Gly Gly
 725 730 735

Glu Val Ser Glu Glu Leu Ser Leu Lys Leu Pro Pro Asn Val Val Glu
 740 745 750

Glu Ser Ala Arg Ala Ser Val Ser Val Leu Gly Asp Ile Leu Gly Ser
 755 760 765

Ala Met Gln Asn Thr Gln Asn Leu Leu Gln Met Pro Tyr Gly Cys Gly
 770 775 780

Glu Gln Asn Met Val Leu Phe Ala Pro Asn Ile Tyr Val Leu Asp Tyr
 785 790 795 800

1461

Leu	Asn	Glu	Thr	Gln	Gln	Leu	Thr	Pro	Glu	Ile	Lys	Ser	Lys	Ala	Ile	
				805						810					815	
Gly	Tyr	Leu	Asn	Thr	Gly	Tyr	Gln	Arg	Gln	Leu	Asn	Tyr	Lys	His	Tyr	
			820					825					830			
Asp	Gly	Ser	Tyr	Ser	Thr	Phe	Gly	Glu	Arg	Tyr	Gly	Arg	Asn	Gln	Gly	
		835					840					845				
Asn	Thr	Trp	Leu	Thr	Ala	Phe	Val	Leu	Lys	Thr	Phe	Ala	Gln	Ala	Arg	
		850				855						860				
Ala	Tyr	Ile	Phe	Ile	Asp	Glu	Ala	His	Ile	Thr	Gln	Ala	Leu	Ile	Trp	
865					870					875					880	
Leu	Ser	Gln	Arg	Gln	Lys	Asp	Asn	Gly	Cys	Phe	Arg	Ser	Ser	Gly	Ser	
			885						890					895		
Leu	Leu	Asn	Asn	Ala	Ile	Lys	Gly	Gly	Val	Glu	Asp	Glu	Val	Thr	Leu	
		900						905					910			
Ser	Ala	Tyr	Ile	Thr	Ile	Ala	Leu	Leu	Glu	Ile	Pro	Leu	Thr	Val	Thr	
		915					920					925				
His	Pro	Val	Val	Arg	Asn	Ala	Leu	Phe	Cys	Leu	Glu	Ser	Ala	Trp	Lys	
	930					935					940					
Thr	Ala	Gln	Glu	Gly	Asp	His	Gly	Ser	His	Val	Tyr	Thr	Lys	Ala	Leu	
945					950					955					960	
Leu	Ala	Tyr	Ala	Phe	Ala	Leu	Ala	Gly	Asn	Gln	Asp	Lys	Arg	Lys	Glu	
			965						970					975		
Val	Leu	Lys	Ser	Leu	Asn	Glu	Glu	Ala	Val	Lys	Lys	Asp	Asn	Ser	Val	
		980						985					990			
His	Trp	Glu	Arg	Pro	Gln	Lys	Pro	Lys	Ala	Pro	Val	Gly	His	Phe	Tyr	
		995					1000					1005				
Glu	Pro	Gln	Ala	Pro	Ser	Ala	Glu	Val	Glu	Met	Thr	Ser	Tyr	Val	Leu	
	1010					1015					1020					
Leu	Ala	Tyr	Leu	Thr	Ala	Gln	Pro	Ala	Pro	Thr	Ser	Glu	Asp	Leu	Thr	
025					1030					1035					1040	
Ser	Ala	Thr	Asn	Ile	Val	Lys	Trp	Ile	Thr	Lys	Gln	Gln	Asn	Ala	Gln	
			1045						1050					1055		
Gly	Gly	Phe	Ser	Ser	Thr	Gln	Asp	Thr	Val	Val	Ala	Leu	His	Ala	Leu	
		1060					1065						1070			

1462

Ser Lys Tyr Gly Ala Ala Thr Phe Thr Arg Thr Gly Lys Ala Ala Gln
 1075 1080 1085

Val Thr Ile Gln Ser Ser Gly Thr Phe Ser Ser Lys Phe Gln Val Asp
 1090 1095 1100

Asn Asn Asn Arg Leu Leu Leu Gln Gln Val Ser Leu Pro Glu Leu Pro
 105 1110 1115 1120

Gly Glu Tyr Ser Met Lys Val Thr Gly Glu Gly Cys Val Tyr Leu Gln
 1125 1130 1135

Thr Ser Leu Lys Tyr Asn Ile Leu Pro Glu Lys Glu Glu Phe Pro Phe
 1140 1145 1150

Ala Leu Gly Val Gln Thr Leu Pro Gln Thr Cys Asp Glu Pro Lys Ala
 1155 1160 1165

His Thr Ser Phe Gln Ile Ser Leu Ser Val Ser Tyr Thr Gly Ser Arg
 1170 1175 1180

Ser Ala Ser Asn Met Ala Ile Val Asp Val Lys Met Val Ser Gly Phe
 1185 1190 1195 1200

Ile Pro Leu Lys Pro Thr Val Lys Met Leu Glu Arg Ser Asn His Val
 1205 1210 1215

Ser Arg Thr Glu Val Ser Ser Asn His Val Leu Ile Tyr Leu Asp Lys
 1220 1225 1230

Val Ser Asn Gln Thr Leu Ser Leu Phe Phe Thr Val Leu Gln Asp Val
 1235 1240 1245

Pro Val Arg Asp Leu Lys Pro Ala Ile Val Lys Val Tyr Asp Tyr Tyr
 1250 1255 1260

Glu Thr Asp Glu Phe Ala Ile Ala Glu Tyr Asn Ala Pro Cys Ser Lys
 1265 1270 1275 1280

Asp Leu Gly Asn Ala
 1285

<210> 1395

<211> 75

<212> PRT

<213> Homo sapiens

<400> 1395

Ile Thr Lys Asn Ile Tyr Ser Asp Leu Lys Asp Leu Ser Ala Lys Asn

1463

1 5 10 15
 Gln Ser Ile Ser Cys Pro Ser Ile Ile Val His Ala Cys Leu Leu Leu
 20 25 30
 Phe Thr Cys Ser Ser Ala Gln Thr Val Ser Asn Leu Gly Thr Pro Phe
 35 40 45
 Gly Ala Asp Lys Tyr Ser Ser Ala Phe Ser Pro Gln Ile Tyr Asn Asp
 50 55 60
 Phe Asn Ile Pro Lys Asn Ile Gly Ile Ser Glu
 65 70 75

<210> 1396

<211> 920

<212> PRT

<213> Homo sapiens

<400> 1396

Arg Thr Arg Gly Ile His Gly Glu Met Arg Leu Phe Val Ser Asp Gly
 1 5 10 15
 Val Pro Gly Cys Leu Pro Val Leu Ala Ala Ala Gly Arg Ala Arg Gly
 20 25 30
 Arg Ala Glu Val Leu Ile Ser Thr Val Gly Pro Glu Asp Cys Val Val
 35 40 45
 Pro Phe Leu Thr Arg Pro Lys Val Pro Val Leu Gln Leu Asp Ser Gly
 50 55 60
 Asn Tyr Leu Phe Ser Thr Ser Ala Ile Cys Arg Tyr Phe Phe Leu Leu
 65 70 75 80
 Ser Gly Trp Glu Gln Asp Asp Leu Thr Asn Gln Trp Leu Glu Trp Glu
 85 90 95
 Ala Thr Glu Leu Gln Pro Ala Leu Ser Ala Ala Leu Tyr Tyr Leu Val
 100 105 110
 Val Gln Gly Lys Lys Gly Glu Asp Val Leu Gly Ser Val Arg Arg Ala
 115 120 125
 Leu Thr His Ile Asp His Ser Leu Ser Arg Gln Asn Cys Pro Phe Leu
 130 135 140
 Ala Gly Glu Thr Glu Ser Leu Ala Asp Ile Val Leu Trp Gly Ala Leu
 145 150 155 160

1464

Tyr Pro Leu Leu Gln Asp Pro Ala Tyr Leu Pro Glu Glu Leu Ser Ala
 165 170 175
 Leu His Ser Trp Phe Gln Thr Leu Ser Thr Gln Glu Pro Cys Gln Arg
 180 185 190
 Ala Ala Glu Thr Val Leu Lys Gln Gln Gly Val Leu Ala Leu Arg Pro
 195 200 205
 Tyr Leu Gln Lys Gln Pro Gln Pro Ser Pro Ala Glu Gly Arg Ala Val
 210 215 220
 Thr Asn Glu Pro Glu Glu Glu Glu Leu Ala Thr Leu Ser Glu Glu Glu
 225 230 235 240
 Ile Ala Met Ala Val Thr Ala Trp Glu Lys Gly Leu Glu Ser Leu Pro
 245 250 255
 Pro Leu Arg Pro Gln Gln Asn Pro Val Leu Pro Val Ala Gly Glu Arg
 260 265 270
 Asn Val Leu Ile Thr Ser Ala Leu Pro Tyr Val Asn Asn Val Pro His
 275 280 285
 Leu Gly Asn Ile Ile Gly Cys Val Leu Ser Ala Asp Val Phe Ala Arg
 290 295 300
 Tyr Ser Arg Leu Arg Gln Trp Asn Thr Leu Tyr Leu Cys Gly Thr Asp
 305 310 315 320
 Glu Tyr Gly Thr Ala Thr Glu Thr Lys Ala Leu Glu Glu Gly Leu Thr
 325 330 335
 Pro Gln Glu Ile Cys Asp Lys Tyr His Ile Ile His Ala Asp Ile Tyr
 340 345 350
 Arg Trp Phe Asn Ile Ser Phe Asp Ile Phe Gly Arg Thr Thr Thr Pro
 355 360 365
 Gln Gln Thr Lys Ile Thr Gln Asp Ile Phe Gln Gln Leu Leu Lys Arg
 370 375 380
 Gly Phe Val Leu Gln Asp Thr Val Glu Gln Leu Arg Cys Glu His Cys
 385 390 395 400
 Ala Arg Phe Leu Ala Asp Arg Phe Val Glu Gly Val Cys Pro Phe Cys
 405 410 415
 Gly Tyr Glu Glu Ala Arg Gly Asp Gln Cys Asp Lys Cys Gly Lys Leu
 420 425 430

1465

Ile Asn Ala Val Glu Leu Lys Lys Pro Gln Cys Lys Val Cys Arg Ser
 435 440 445
 Cys Pro Val Val Gln Ser Ser Gln His Leu Phe Leu Asp Leu Pro Lys
 450 455 460
 Leu Glu Lys Arg Leu Glu Glu Trp Leu Gly Arg Thr Leu Pro Gly Ser
 465 470 475 480
 Asp Trp Thr Pro Asn Ala Gln Phe Ile Thr Arg Ser Trp Leu Arg Asp
 485 490 495
 Gly Leu Lys Pro Arg Cys Ile Thr Arg Asp Leu Lys Trp Gly Thr Pro
 500 505 510
 Val Pro Leu Glu Gly Phe Glu Asp Lys Val Phe Tyr Val Trp Phe Asp
 515 520 525
 Ala Thr Ile Gly Tyr Leu Ser Ile Thr Ala Asn Tyr Thr Asp Gln Trp
 530 535 540
 Glu Arg Trp Trp Lys Asn Pro Glu Gln Val Asp Leu Tyr Gln Phe Met
 545 550 555 560
 Ala Lys Asp Asn Val Pro Phe His Ser Leu Val Phe Pro Cys Ser Ala
 565 570 575
 Leu Gly Ala Glu Asp Asn Tyr Thr Leu Val Ser His Leu Ile Ala Thr
 580 585 590
 Glu Tyr Leu Asn Tyr Glu Asp Gly Lys Phe Ser Lys Ser Arg Gly Val
 595 600 605
 Gly Val Phe Gly Asp Met Ala Gln Asp Thr Gly Ile Pro Ala Asp Ile
 610 615 620
 Trp Arg Phe Tyr Leu Leu Tyr Ile Arg Pro Glu Gly Gln Asp Ser Ala
 625 630 635 640
 Phe Ser Trp Thr Asp Leu Leu Leu Lys Asn Asn Ser Glu Leu Leu Asn
 645 650 655
 Asn Leu Gly Asn Phe Ile Asn Arg Ala Gly Met Phe Val Ser Lys Phe
 660 665 670
 Phe Gly Gly Tyr Val Pro Glu Met Val Leu Thr Pro Asp Asp Gln Arg
 675 680 685
 Leu Leu Ala His Val Thr Leu Glu Leu Gln His Tyr His Gln Leu Leu
 690 695 700

1466

Glu Lys Val Arg Ile Arg Asp Ala Leu Arg Ser Ile Leu Thr Ile Ser
 705 710 715 720
 Arg His Gly Asn Gln Tyr Ile Gln Val Asn Glu Pro Trp Lys Arg Ile
 725 730 735
 Lys Gly Ser Glu Ala Asp Arg Gln Arg Ala Gly Thr Val Thr Gly Leu
 740 745 750
 Ala Val Asn Ile Ala Ala Leu Leu Ser Val Met Leu Gln Pro Tyr Met
 755 760 765
 Pro Thr Val Ser Ala Thr Ile Gln Ala Gln Leu Gln Leu Pro Pro Pro
 770 775 780
 Ala Cys Ser Ile Leu Leu Thr Asn Phe Leu Cys Thr Leu Pro Ala Gly
 785 790 795 800
 His Gln Ile Gly Thr Val Ser Pro Leu Phe Gln Lys Leu Glu Asn Asp
 805 810 815
 Gln Ile Glu Ser Leu Arg Gln Arg Phe Gly Gly Gly Gln Ala Lys Thr
 820 825 830
 Ser Pro Lys Pro Ala Val Val Glu Thr Val Thr Thr Ala Lys Pro Gln
 835 840 845
 Gln Ile Gln Ala Leu Met Asp Glu Val Thr Lys Gln Gly Asn Ile Val
 850 855 860
 Arg Glu Leu Lys Ala Gln Lys Ala Asp Lys Asn Glu Val Ala Ala Glu
 865 870 875 880
 Val Ala Lys Leu Leu Asp Leu Lys Lys Gln Leu Ala Val Ala Glu Gly
 885 890 895
 Asn Pro Leu Lys Pro Leu Lys Ala Arg Arg Lys Ser Lys Arg Pro Trp
 900 905 910
 Leu Ile Glu Ser His Phe Asn Arg
 915 920

<210> 1397

<211> 476

<212> PRT

<213> Homo sapiens

<220>

1467

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1397

Lys Met Ala Ala Leu Thr Thr Leu Phe Lys Tyr Ile Asp Glu Asn Gln
 1 5 10 15
 Asp Arg Tyr Ile Lys Lys Leu Ala Lys Trp Val Ala Ile Gln Ser Val
 20 25 30
 Ser Ala Trp Pro Glu Lys Arg Gly Glu Ile Arg Arg Met Met Glu Val
 35 40 45
 Ala Ala Ala Asp Val Lys Gln Leu Gly Gly Ser Val Glu Leu Val Asp
 50 55 60
 Ile Gly Lys Gln Lys Leu Pro Asp Gly Ser Glu Ile Pro Leu Pro Pro
 65 70 75 80
 Ile Leu Leu Gly Arg Leu Gly Ser Asp Pro Gln Lys Lys Thr Val Cys
 85 90 95
 Ile Tyr Gly His Leu Asp Val Gln Pro Ala Ala Leu Glu Asp Gly Trp
 100 105 110
 Asp Ser Glu Pro Phe Thr Leu Val Glu Arg Asp Gly Lys Leu Xaa Gly
 115 120 125
 Arg Gly Ser Thr Asp Asp Lys Gly Pro Val Ala Gly Trp Ile Asn Ala
 130 135 140
 Leu Glu Ala Tyr Gln Lys Thr Gly Gln Glu Ile Pro Val Asn Val Arg
 145 150 155 160
 Phe Cys Leu Glu Gly Met Glu Glu Ser Gly Ser Glu Gly Leu Asp Glu
 165 170 175
 Leu Ile Phe Ala Arg Lys Asp Thr Phe Phe Lys Asp Val Asp Tyr Val
 180 185 190
 Cys Ile Ser Asp Asn Tyr Trp Leu Gly Lys Lys Lys Pro Cys Ile Thr
 195 200 205
 Tyr Gly Leu Arg Gly Ile Cys Tyr Phe Phe Ile Glu Val Glu Cys Ser
 210 215 220
 Asn Lys Asp Leu His Ser Gly Val Tyr Gly Gly Ser Val His Glu Ala
 225 230 235 240
 Met Thr Asp Leu Ile Leu Leu Met Gly Ser Leu Val Asp Lys Arg Gly

1468

245	250	255
Asn Ile Leu Ile Pro Gly Ile Asn Glu Ala Val Ala Ala Val Thr Glu 260 265 270		
Glu Glu His Lys Leu Tyr Asp Asp Ile Asp Phe Asp Ile Glu Glu Phe 275 280 285		
Ala Lys Asp Val Gly Ala Gln Ile Leu Leu His Ser His Lys Lys Asp 290 295 300		
Ile Leu Met His Arg Trp Arg Tyr Pro Ser Leu Ser Leu His Gly Ile 305 310 315 320		
Glu Gly Ala Phe Ser Gly Ser Gly Ala Lys Thr Val Ile Pro Arg Lys 325 330 335		
Val Val Gly Lys Phe Ser Ile Arg Leu Val Pro Asn Met Thr Pro Glu 340 345 350		
Val Val Gly Glu Gln Val Thr Ser Tyr Leu Thr Lys Lys Phe Ala Glu 355 360 365		
Leu Arg Ser Pro Asn Glu Phe Lys Val Tyr Met Gly His Gly Gly Lys 370 375 380		
Pro Trp Val Ser Asp Phe Ser His Pro His Tyr Leu Ala Gly Arg Arg 385 390 395 400		
Ala Met Lys Thr Val Phe Gly Val Glu Pro Asp Leu Thr Arg Glu Gly 405 410 415		
Gly Ser Ile Pro Val Thr Leu Thr Phe Gln Glu Ala Thr Gly Lys Asn 420 425 430		
Val Met Leu Leu Pro Val Gly Ser Ala Asp Asp Gly Ala His Ser Gln 435 440 445		
Asn Glu Lys Leu Asn Arg Tyr Asn Tyr Ile Glu Gly Thr Lys Met Leu 450 455 460		
Ala Ala Tyr Leu Tyr Glu Val Ser Gln Leu Lys Asp 465 470 475		

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<210> 1398
<211> 187
<212> PRT
<213> Homo sapiens
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1469

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1398

Leu His Leu Xaa Pro Thr Ser Ile Ser Ser Ser Ser Ser Cys Ser Val
 1 5 10 15

Ser Ser Val Val Ser Gln Arg Leu Thr Glu Ser Pro Cys Ala Leu Val
 20 25 30

Ala Ser Gln Tyr Gly Trp Ser Gly Asn Met Glu Arg Ile Met Lys Ala
 35 40 45

Gln Ala Tyr Gln Thr Gly Lys Asp Ile Ser Thr Asn Tyr Tyr Ala Ser
 50 55 60

Gln Lys Lys Thr Phe Glu Ile Asn Pro Arg His Pro Leu Ile Arg Asp
 65 70 75 80

Met Leu Arg Arg Ile Lys Glu Asp Glu Asp Asp Lys Thr Val Leu Asp
 85 90 95

Leu Ala Val Val Leu Phe Glu Thr Ala Thr Leu Arg Ser Gly Tyr Leu
 100 105 110

Leu Pro Asp Thr Lys Ala Tyr Gly Asp Arg Ile Glu Arg Met Leu Arg
 115 120 125

Leu Ser Leu Asn Ile Asp Pro Asp Ala Lys Val Glu Glu Glu Pro Glu
 130 135 140

Glu Glu Pro Glu Glu Thr Ala Glu Asp Thr Thr Glu Asp Thr Glu Gln
 145 150 155 160

Asp Glu Asp Glu Glu Met Asp Val Gly Thr Asp Glu Glu Glu Glu Thr
 165 170 175

Ala Lys Glu Ser Thr Ala Glu Lys Asp Glu Leu
 180 185

<210> 1399

<211> 376

<212> PRT

<213> Homo sapiens

<400> 1399

Lys Ser Ser Thr Gly Val Ile Pro Asp Glu Ala Lys Ala Leu Ser Leu

1470

1	5	10	15
Leu Ala Pro Ala Asn Ala Val Ala Gly Leu Leu Pro Gly Gly Gly Leu	20	25	30
Leu Pro Thr Pro Asn Pro Leu Thr Gln Ile Gly Ala Val Pro Leu Ala	35	40	45
Ala Leu Gly Ala Pro Thr Leu Asp Pro Ala Leu Ala Ala Leu Gly Leu	50	55	60
Pro Gly Ala Asn Leu Asn Ser Gln Ser Leu Ala Ala Asp Gln Leu Leu	65	70	75
Lys Leu Met Ser Thr Val Asp Pro Lys Leu Asn His Val Ala Ala Gly	85	90	95
Leu Val Ser Pro Ser Leu Lys Ser Asp Thr Ser Ser Lys Glu Ile Glu	100	105	110
Glu Ala Met Lys Arg Val Arg Glu Ala Gln Ser Leu Ile Ser Ala Ala	115	120	125
Ile Glu Pro Asp Lys Lys Glu Glu Lys Arg Arg His Ser Arg Ser Arg	130	135	140
Ser Arg Ser Arg Arg Arg Arg Thr Pro Ser Ser Ser Arg His Arg Arg	145	150	155
Ser Arg Ser Arg Ser Arg Arg Arg Ser His Ser Lys Ser Arg Ser Arg	165	170	175
Arg Arg Ser Lys Ser Pro Arg Arg Arg Arg Ser His Ser Arg Glu Arg	180	185	190
Gly Arg Arg Ser Arg Ser Thr Ser Lys Thr Arg Asp Lys Lys Lys Glu	195	200	205
Asp Lys Glu Lys Lys Arg Ser Lys Thr Pro Pro Lys Ser Tyr Ser Thr	210	215	220
Ala Arg Arg Ser Arg Ser Ala Ser Arg Glu Arg Arg Arg Arg Ser	225	230	235
Arg Ser Gly Thr Arg Ser Pro Lys Lys Pro Arg Ser Pro Lys Arg Lys	245	250	255
Leu Ser Arg Ser Pro Ser Pro Arg Arg His Lys Lys Glu Lys Lys Lys	260	265	270
Asp Lys Asp Lys Glu Arg Ser Arg Asp Glu Arg Glu Arg Ser Thr Ser			

1471

275 280 285
 Lys Lys Lys Lys Ser Lys Asp Lys Glu Lys Asp Arg Glu Arg Lys Ser
 290 295 300
 Glu Ser Asp Lys Asp Val Lys Gln Val Thr Arg Asp Tyr Asp Glu Glu
 305 310 315 320
 Glu Gln Gly Tyr Asp Ser Glu Lys Glu Lys Lys Glu Glu Lys Lys Pro
 325 330 335
 Ile Glu Thr Gly Ser Pro Lys Thr Lys Glu Cys Ser Val Glu Lys Gly
 340 345 350
 Thr Gly Asp Ser Leu Arg Glu Ser Lys Val Asn Gly Asp Asp His His
 355 360 365
 Glu Glu Asp Met Asp Met Ser Asp
 370 375

<210> 1400

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1400

Thr Ala Gly Leu Thr Ser Arg Gly Trp Gly Ser Leu Pro Pro Ser Leu
 1 5 10 15
 Glu Thr Phe Leu Xaa Trp Leu Lys Ser Arg Lys Glu Asn Glu Cys Thr
 20 25 30
 Ser Arg Leu Ala Gln Ser Leu Ser Pro Ser Ser Ser Leu Phe Pro Ala
 35 40 45
 Gly Pro Ser Gly Leu Tyr Gly Pro Asp Gly Gly Leu Arg Lys Met Arg
 50 55 60
 Gly Leu Trp Phe Ser Gly Ile Pro Ala Gly Ala Thr Pro Ser Cys Leu
 65 70 75 80
 Gln Met Val His Val Pro Ile Pro Pro Ser Arg Pro Leu Leu Cys Leu
 85 90 95

1472

Leu Cys His Arg Asp Ser Gln Gln Arg Phe Phe Phe Val Leu Ala Val
100 105 110

<210> 1401

<211> 69

<212> PRT

<213> Homo sapiens

<400> 1401

Arg Arg Gln Val Gly Ala Ala Ala Val Ala Met Thr Arg Gly Asn Gln
1 5 10 15

Arg Glu Leu Ala Arg Gln Lys Asn Met Lys Lys Gln Ser Asp Ser Val
20 25 30

Lys Gly Lys Arg Arg Asp Asp Gly Leu Ser Ala Ala Ala Arg Lys Gln
35 40 45

Arg Asp Ser Glu Ile Met Gln Gln Lys Gln Lys Lys Ala Asn Glu Lys
50 55 60

Lys Glu Glu Pro Lys
65

<210> 1402

<211> 177

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (162)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

1473

<400> 1402

Arg Pro Pro Arg Arg Xaa Pro Met Asp Gly Pro Ala Ile Ile Thr Gln
 1 5 10 15

Val Thr Asn Pro Lys Glu Asp Glu Gly Arg Leu Pro Gly Ala Gly Glu
 20 25 30

Lys Ala Ser Gln Cys Asn Val Ser Leu Lys Lys Gln Arg Ser Arg Ser
 35 40 45

Ile Leu Ser Ser Phe Phe Cys Cys Phe Arg Asp Tyr Asn Val Glu Ala
 50 55 60

Pro Pro Pro Ser Ser Pro Ser Val Leu Pro Pro Leu Val Glu Glu Asn
 65 70 75 80

Gly Gly Leu Gln Lys Pro Pro Ala Lys Tyr Leu Leu Pro Glu Val Thr
 85 90 95

Val Leu Asp Tyr Gly Lys Lys Cys Val Val Ile Asp Leu Asp Glu Thr
 100 105 110

Leu Val His Ser Ser Phe Lys Pro Ile Ser Asn Ala Asp Phe Ile Val
 115 120 125

Pro Val Glu Ile Asp Gly Thr Ile His Gln Val Tyr Val Leu Lys Arg
 130 135 140

Pro His Val Asp Glu Phe Leu Gln Arg Met Gly Gln Leu Leu Asn Val
 145 150 155 160

Cys Xaa Leu Leu Pro Xaa Gly Gln Val Cys Arg Pro Val Ala Asp Leu
 165 170 175

Leu

<210> 1403

<211> 82

<212> PRT

<213> Homo sapiens

<400> 1403

Lys His Ile Leu Ser Thr Phe Glu Thr Ser Val Leu Glu Gly Arg Leu
 1 5 10 15

His Lys Leu Ser Ser Pro Arg Leu Arg Arg Leu Gln Ser Gly Lys Leu
 20 25 30

1474

Thr Cys Arg Asn Gly Val Pro Phe Met Leu Tyr Leu Asp Lys Gly Asn
 35 40 45

Gln Lys Trp Asn Gln Cys Arg Gln Asn Leu Gly Phe Ala Ala Ser Ile
 50 55 60

Asn Gln Ser Met Thr Asn Arg Gly Ser Leu Lys Cys Lys Gly Thr Asn
 65 70 75 80

Phe Thr

<210> 1404

<211> 251

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1404

Thr Thr Lys Pro Ala Thr Thr Pro Ser Ser Thr Thr Arg Thr Cys Arg
 1 5 10 15

Arg Ser Pro Ser Thr Leu Pro Ser Ala Thr Trp Thr Pro Leu Ala Ser
 20 25 30

Arg Thr Ala His Xaa Leu Pro Arg Xaa Tyr Met Tyr Pro Ser Met Asp
 35 40 45

Gln Leu Ala Glu Met Leu Pro Gly Val Leu Gln Gln Phe Gly Leu Lys
 50 55 60

Ser Ile Ile Gly Met Gly Thr Gly Ala Gly Ala Tyr Ile Leu Thr Arg
 65 70 75 80

Phe Ala Leu Asn Asn Pro Glu Met Val Glu Gly Leu Val Leu Ile Asn
 85 90 95

Val Asn Pro Cys Ala Glu Gly Trp Met Asp Trp Ala Ala Ser Lys Ile
 100 105 110